

15268727-2

Exam. Estefanía Páez

Search history

Search 1: PN=(EP2011766 OR EP2565165 OR EP2589430 OR EP0273335 OR WO9633138 OR EP1982759) (Results 6)

Title: FLOCCULANTS AND FILTER AIDS AND THEIR USE.

Abstract: Flocculants less susceptible to interference are made available for the flocculation of suspended matter and particulate solids from liquid phases with the aid of polycationic polymeric compounds. This is brought about by the auxiliaries being solids which are at least substantially insoluble in the liquid phases to be clarified, and which have a polycationic layer at least on their surface and, moreover, are in the form of solid particles of a size such that the majority of the suspended matter particles or particulate impurities to be removed can be bound to the surface of a polycationic particle.

Classifications:

International (IPC 8-9): B01D21/01 B01D61/04 B01J20/26 C02F1/28 C02F1/52 C02F1/54 (Advanced/Invention); B01D21/01 B01D61/02 B01J20/22 C02F1/28 C02F1/52 C02F1/54 (Core/Invention)

International (IPC 1-7): B01D13/00 B01D21/01 B01D23/10 B01J20/02 B01J20/18 B01J20/24 B01J20/32 C02F1/52 C02F1/56 C13D3/12 C25C1/00 C25C5/00

CPC: B01D61/025 B01D61/147 C02F1/286 B01D61/04 B01D2311/04 C02F1/288 C02F1/52 C02F1/54

European: B01D61/04 C02F1/28H C02F1/28L C02F1/52 C02F1/54 L01D311/04

Family:

Publication number	Publication date	Application number	Application date
DE3644579 A1	19880707	DE19863644579	19861227
DK686587 A	19880628	DK19870006865	19871223
DK686587 A0	19871223	DK19870006865	19871223
EP0273335 A2	19880706	EP19870118909	19871219
EP0273335 A3	19880921	EP19870118909	19871219
FI875698 A	19880628	FI19870005698	19871223
FI875698 A0	19871223	FI19870005698	19871223
JP1176409 A2	19890712	JP19870336831	19871228
ZA8709675 A	19880627	ZA19870009675	19871223

Priority:

DE19863644579 19861227

Probable Assignee: HENKEL KGAA

Assignee(s): (std): HENKEL KGAA

Assignee(s): HENKEL KOMMANDITGESELLSCHAFT AUF AKTIEN ; HENKEL AUF AKTIEN KG

Inventor(s): (std): AMBERG GUENTHER ; AMBERG GUNTHER ; ANDOREASU ZUYURUDATSUKU ; ARUFUREETO MEFUERUTO ; ENGELSKIRCHEN KONRAD ; ENGELSKIRCHEN KONRAD DR ; FRIEDRICH FUES JOHANN ; FUES JOHANN FRIEDRICH ; FUES JOHANN FRIEDRICH DR ; GIYUNTAA AMUBERUKU ; MEFFERT ALFRED ; MEFFERT ALFRED DR ; SYLDATK ANDREAS ; SYLDATK ANDREAS DR ; YOHAN FURIIDORITSUHI FUESU ; KONRAATO ENGERUSUKIRUHIEN

Inventor(s): KONRAD ENGELSKIRCHEN ; ALFRED MEFFERT ; GUENTHER AMBERG ; JOHANN FRIEDRICH FUES ; FRIEDRICH DR FUES JOHANN ; ANDREAS SYLDATK

Designated states: AT BE CH DE ES FR GB IT LI NL SE

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
DE3644579 A1	19880707	LSPB	+	published / reissued	
DE3644579 A1	19920116	LSLE	-8139	DISPOSAL/NON-PAYMENT OF THE ANNUAL FEE	
DK686587 A	19880628	LSPB	+	published / reissued	
DK686587 A	19910826	LSWD	-AHB	APPLICATION SHELVED DUE TO NON-PAYMENT	
EP0273335 A2	19880706	LSPB	+	published / reissued	
EP0273335 A2	19881130	LSSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 19881007
EP0273335 A2	19890322	LSSES	+17Q	FIRST EXAMINATION REPORT	EFFECTIVE DATE : 19890202
EP0273335 A2	19900509	LSWD	-18W	WITHDRAWN	WITHDRAWEL DATE : 19900312
EP0273335 A2	19900516	LSRE	-R18W	WITHDRAWAL (CORRECTION)	EFFECTIVE DATE : 19900312
FI875698 A	19880628	LSPB	+	published / reissued	
FI875698 A	20040831	LSLE	-FD	APPLICATION LAPSED	OWNER NAME : HENKEL KOMMANDITGESELLSCHAFT AUF AKTIEN
JP1176409 A2	19890712	LSPB	+	published / reissued	
ZA8709675 A	19880627	LSGT	+	granted / extensions (spc, cpc, pte)	

Title: AQUEOUS PURIFICATION PROCESSES

Abstract: The invention provides a process for the recovery of inorganic solids from an aqueous suspension of inorganic solids and polymer latex by preferential coagulation of the inorganic solids. This preferential coagulation is carried out by the addition to the suspension of a cationic polymeric material having cationic content of at least 1, and usually 4, meq/g in an amount of less than 1000 ppm and usually less than 100 ppm. The coagulant is added in an amount such that the ratio of inorganics to organics in the floc formed is greater than the corresponding ratio in the suspension treated by a factor of at least 2, usually above 10. The coagulated solids are recovered. This process is particularly useful in the paper-making industry where the aqueous suspension may be derived from coating colour suspension, in which the inorganic solids are primarily clay or calcium carbonate and the recovered solids can be recycled for use.

Classifications:

International (IPC 8-9): C02F1/54 C02F1/56 C02F9/00 (Advanced/Invention);
C02F1/54 C02F9/00 (Core/Invention)

International (IPC 1-7): C02F1/52 C02F1/56 C02F9/00

CPC: C02F1/56 C02F2103/28

European: M02F103/28

Family:

Publication number	Publication date	Application number	Application date
AU199653408 A1	19961107	AU19960053408	19960416
GB9507895 A0	19950531	GB19950007895	19950418
WO9633138 A1	19961024	WO1996GB00934	19960416

Priority:

GB19950007895 19950418 WO1996GB00934 19960416

Probable Assignee: ALLIED COLLOIDS LTD

Assignee(s): (std): ALLIED COLLOIDS LTD ; MONCKTON JASON PAUL ; NIXON ADRIAN WILLIAM

Assignee(s): ALLIED COLLOIDS LIMITED

Inventor(s): (std): MONCKTON JASON PAUL ; NIXON ADRIAN WILLIAM

Inventor(s): ADRIAN WILLIAM NIXON ; JASON PAUL MONCKTON

Designated states: AL AM AT AU AZ BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CZ DE DK EE ES FI FR GA GB GE GN GR HU IE IS IT JP KE KG KP KR KZ LK LR LS LT LU LV MC MD MG MK MN MW MX NL NO NZ PL PT RO RU SD SE SG SI SK SZ TJ TM TR TT UA UG US UZ VN

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AU199653408 A1	19961107	LSPB	+	published / reissued	
WO9633138 A1	19961024	LSPB	+	published / reissued	
WO9633138 A1	19980226	LSWD	REG	REFERENCE TO NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : 8642
WO9633138 A1	19981018	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : CA

Title: SURFACE TREATED CALCIUM CARBONATE AND ITS USE IN WASTE WATER TREATMENT

Abstract: Source: US2010086987A The present invention relates to a process for the purification of water, wherein a surface-reacted natural calcium carbonate is brought into contact with the water to be purified, the surface-reacted natural calcium carbonate being the reaction product of a natural calcium carbonate with an acid and carbon dioxide, which is formed in situ by the acid treatment and/or supplied externally.

Classifications:

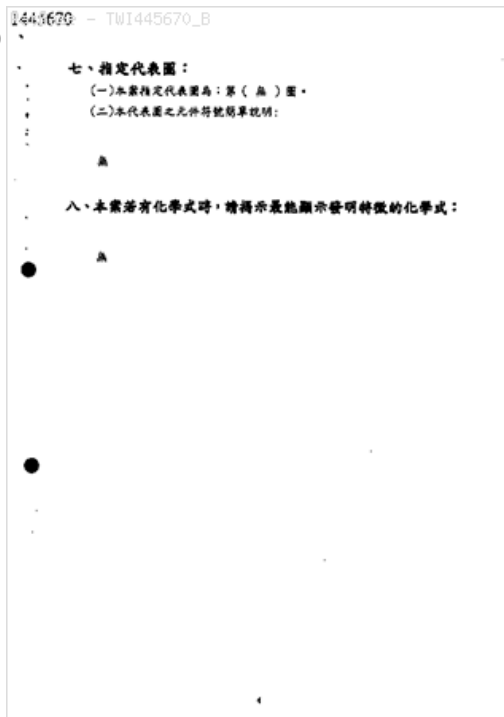
International (ipc 8-9): B01D21/01 B01J20/04 B01J20/20 B01J20/30 C01F11/18 C02F1/00 C02F1/28 C02F1/52 C02F1/54 C02F1/56 C02F1/62 C02F1/66 C02F101/20 C02F103/28 C02F103/32 C02F5/06 C09K3/00 C12N1/00 (Advanced/Invention); B01J20/04 C02F1/56 C02F101/20 C02F103/28 C02F103/32 (Advanced/Non-invention); B01D21/01 B01J20/00 B01J20/04 C01F11/00 C02F1/00 C02F1/28 C02F1/52 C02F1/54 C02F1/62 C02F1/66 C02F5/00 C09K3/00 C12N1/00 (Core/Invention); C02F1/54 (Core/Non-invention); B01J C02F (Subclass/Invention)

International (ipc 1-7): B01J20/04 C02F1/28 C02F1/56 C02F1/68 C02F103/28

CPC: C02F1/5236 C02F1/54 B01J20/043 B01J20/20 B01J2220/42 C02F1/281 C02F1/283 C02F1/56 C02F2101/305 C02F2101/327 C02F2103/28 C02F2103/32 B01J20/28004 B01J20/28054 B01J20/28057 Y10T428/2982

European: B01J20/04 B01J20/04D B01J20/20 C02F1/28B L01J20/04D L01J220/42 M02F1/28B M02F1/28D M02F1/56 M02F101/30E M02F101/32P M02F103/28 M02F103/32

US: 210/660 210/660S 210/663 210/663S 210/666 210/666S 210/688 210/688S 210/691 210/691S 210/694 210/694S 252/176 252/182.12 252/182.120S 252/182.33 252/182.330S 428/402 435/243 435/243P



Family:

Publication number	Publication date	Application number	Application date
AR065715 AA	20090624	AR2008P101026	20080313
AT523248 E	20110915	AT20070005856T	20070321
AU2008228253 AA	20080925	AU20080228253	20080319
AU2008228253 BB	20120202	AU20080228253	20080319
BRPI0807998 A2	20140624	BR2008PI07998	20080319
CA2679248 AA	20090826	CA20082679248	20080319
CA2679248 C	20151006	CA20082679248	20080319
CL2008000779 A1	20081107	CL20080000779	20080318
CL50204 B	20140807	CL20080000779	20080318
CN101626830 A	20100113	CN200880007616	20080319
CN101626830 B	20121003	CN200880007616	20080319
CO6220844 A2	20101119	CO20090086897	20090819
DE602007016880 D1	20111103	DE200760016880T	20070321
DK1982759 T3	20120102	DK20070005856T	20070321
EG25583 A	20120311	EG20090091380	20090923
EP1982759 A1	20081022	EP20070005856	20070321
EP1982759 B1	20110907	EP20070005856	20070321
EP2180944 A1	20100505	EP20080718058	20080319
EP2180944 B1	20140521	EP20080718058	20080319
ES2375849 T3	20120306	ES20070005856T	20070321
HK1123768 A1	20120615	HK20090103422	20090414
HK1123768 A3	20090626	HK20090103422	20090414
HR20140734 T1	20140829	HR20140000734	20140729
IN01442MN2009 A	20100122	IN2009MN01442	20090730
IN01892MN2013 A	20140912	IN2013MN01892	20131009
JP2010521297 T2	20100624	JP20090554025T	20080319
JP5351057 B2	20131127	JP20090554025T	20080319
KR101338784 B1	20131209	KR20097019821	20080319
KR20090123905 A	20091202	KR20097019821	20080319
MX2009009545 A1	20090916	MX2009009545	20080319
NZ578932 A	20120330	NZ20080578932	20080319
PA8772801 A1	20081119	PA20080087728	20080319
PE16262008 A1	20081209	PE20080000495	20080318
PT1982759 T	20111223	PT20070005856T	20070321
RU2009138752 A	20110427	RU20090138752	20080319
RU2482068 C2	20130520	RU20090138752	20080319
SI1982759 T1	20120229	SI20070030784T	20070321
TH131204 A	20140207	TH20081001334	20080319
TW200914380 A	20090401	TW20080107301	20080303
TWI445670 B	20140721	TW20080107301	20080303

UA102995 C2	20130910	UA20090100655	20080319
US2010086987 AA	20100408	US20080449885	20080319
US2014209831 AA	20140731	US20140231920	20140401
US8728322 BB	20140520	US20080449885	20080319
UY30968 A1	20081031	UY20080030968	20080319
WO08113840 A1	20080925	WO2008EP53337	20080319
ZA200905533 A	20101027	ZA20090005533	20080319

Priority:

EP20070005856 20070321 EP20080718058 20080319 WO2008EP53337 20080319
US20090449885 20091113 US20140231920 20140401

Probable Assignee: OMYA DEVELOPEMENT AG

Assignee(s): (std): GANTENBEIN DANIEL ; GERARD DANIEL E ; OMIA DEV AG ; SCHOELKOPF JOACHIM ; OMYA DEVELOPMENT AG ; GANE PATRICK A C ; OMYA INT AG

Assignee(s): GANE PATRICK AC ; OMYA DEVELOPEMENT AG ; SCHOLKOPF JOACHIM ; OMIA DEVELOPMENT AG

Inventor(s): (std): DZHERARD DEHNIEL E ; GANE PATRICK A C ; GANE PATRICK AC ; GANE PATRIK A C ; DANIEL E GERARD ; DANIEL GANTENBEIN ; GANTENBAJN DANIEHL ; GANTENBEIN DANIEL ; GEJN PATRIK A S ; JOACHIM SCHOELKOPF ; JOACHIM SCHOLKOPF ; JOACHIM SCHOLKOPT ; GERARD DANIEL ; GERARD DANIEL E ; PATRICK A C GANE ; SCHOELKOPF JOACHIM ; SCHOLKOPF JOACHIM ; SHELKOPF JOAKHIM

Inventor(s): PATRICK AC GANE ; PATRICK ACGANE ; JOACHIM SCHOOLKOPF ; GANTENBAJN DANIEHL' ; DANIEL GERARD ; GANE PATRIK AC

Agent(s): SPRUSON AND FERGUSON; ROBIC; VILLASECA; ALICIA LLOREDA RICAURTE; MAIWALD PATENTANWALTS GMBH; HANSEN NORBERT; ONO MAKOTO; TSUBOKURA MICHIAKI; KANAYAMA MASATAKA; KAWAGUTI AND PARTNERS; OSAKI KATSUMASA; AMSTER ROTHSTEIN AND EBENSTEIN LLP

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AR065715 AA	20090624	LSPB	+	published / reissued	
AR065715 AA	20151021	LSGT	+FG	GRANT, REGISTRATION	
AT523248 E	20110915	LSGT	+	granted / extensions (spc, cpc, pte)	
AT523248 E	20120415	LSPB	+UEP	PUBLICATION OF TRANSLATION OF EUROPEAN PATENT SPECIFICATION	REF DOCUMENT NUMBER : 1982759 COUNTRY OF REF DOCUMENT : EP
AU2008228253 AA	20080925	LSPB	+	published / reissued	
AU2008228253 AA	20120531	LSGT	+FGA	LETTERS PATENT SEALED OR GRANTED (STANDARD PATENT)	
AU2008228253 BB	20120202	LSGT	+	granted / extensions (spc, cpc, pte)	
BRPI0807998 A2	20140624	LSPB	+	published / reissued	
BRPI0807998 A2	20150526	LSAS	B25D	REQUESTED CHANGE OF NAME OF APPLICANT APPROVED	OWNER NAME : OMYA INTERNATIONAL AG (CH)
CA2679248 AA	20090826	LSPB	+	published / reissued	
CA2679248 AA	20090826	LSNP	+AFNE	NATIONAL PHASE ENTRY	
CA2679248 AA	20120405	LSES	+EEER	EXAMINATION REQUEST	
CA2679248 AA	20120424	LSES	+EEER	EXAMINATION REQUEST	EFFECTIVE DATE : 20120405
CA2679248 C	20151006	LSGT	+	granted / extensions (spc, cpc, pte)	
CL2008000779 A1	20081107	LSPB	+	published / reissued	
CL50204 B	20140807	LSGT	+	granted / extensions (spc, cpc, pte)	

CN101626830 A	20100113	LSPB	+	published / reissued	
CN101626830 A	20100113	LSPB	+C06	PUBLICATION	
CN101626830 A	20121003	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	
CN101626830 A	20140402	LSAS	C56	CHANGE IN THE NAME OR ADDRESS OF THE PATENTEE	
CN101626830 A	20140402	LSAS	C56	CHANGE IN THE NAME OR ADDRESS OF THE PATENTEE	OWNER NAME : OMENIA INTERNATIONAL CORPORATION DESCRIPTION : FORMER NAME: OMYA SAS
CN101626830 B	20121003	LSGT	+	granted / extensions (spc, cpc, pte)	
CO6220844 A2	20101119	LSPB	+	published / reissued	
CO6220844 A2	20130429	LSGT	+FG	APPLICATION GRANTED	
DK1982759 T3	20120102	LSGT	+	granted / extensions (spc, cpc, pte)	
EG25583 A	20120311	LSGT	+	granted / extensions (spc, cpc, pte)	
EP1982759 A1	20081022	LSPB	+	published / reissued	
EP1982759 A1	20081022	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20070321
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EP1982759 A1	20110413	LSRE	RIC1	CLASSIFICATION (CORRECTION)	IPC : B01J 20/04 20060101AFI20110304BHEP
EP1982759 A1	20110413	LSRE	RIC1	CLASSIFICATION (CORRECTION)	IPC : C02F 1/28 20060101ALI20110304BHEP
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EP1982759 A1	20110413	LSRE	RIC1	CLASSIFICATION (CORRECTION)	IPC : C02F 103/32 20060101ALI20110304BHEP
EP1982759 A1	20110907	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : GB REF LEGAL EVENT CODE : FG4D
EP1982759 A1	20110915	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : EP
EP1982759 A1	20110928	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : IE REF LEGAL EVENT CODE : FG4D
EP1982759 A1	20111103	LSPB	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R096 REF DOCUMENT NUMBER : 602007016880 COUNTRY OF REF DOCUMENT : DE EFFECTIVE DATE : 20111103

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OFFICE					
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EP1982759 A1	20120628	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : HU REF LEGAL EVENT CODE : AG4A REF DOCUMENT NUMBER : E013045 COUNTRY OF REF DOCUMENT : HU
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EP1982759 A1	20120629	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : GB PAYMENT DATE : 20120103 YEAR OF FEE PAYMENT : 06
EP1982759 A1	20120629	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : LV PAYMENT DATE : 20111206 YEAR OF FEE PAYMENT : 06
EP1982759 A1	20120629	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : DK PAYMENT DATE : 20120312 YEAR OF FEE PAYMENT : 06
EP1982759 A1	20120629	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : RO PAYMENT DATE : 20120319 YEAR OF FEE PAYMENT : 06
EP1982759 A1	20120731	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : NL PAYMENT DATE : 20120131 YEAR OF FEE PAYMENT : 06
EP1982759 A1	20120815	LSGT	+26N	NO OPPOSITION FILED	EFFECTIVE DATE : 20120611
EP1982759 A1	20121011	LSRE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R097 REF DOCUMENT NUMBER : 602007016880 COUNTRY OF REF DOCUMENT : DE EFFECTIVE DATE : 20120611
EP1982759 A1	20121031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : MC DESCRIPTION : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES EFFECTIVE DATE : 20120331
EP1982759 A1	20130329	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : AT PAYMENT DATE : 20120313 YEAR OF FEE PAYMENT : 06
EP1982759 A1	20130430	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO	REF COUNTRY CODE : CH PAYMENT DATE : 20130322 YEAR OF FEE PAYMENT : 07

				NATIONAL OFFICE	
EP1982759 A1	20130430	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : DE PAYMENT DATE : 20130321 YEAR OF FEE PAYMENT : 07
EP1982759 A1	20130430	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : CZ PAYMENT DATE : 20130318 YEAR OF FEE PAYMENT : 07
EP1982759 A1	20130430	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : BG PAYMENT DATE : 20130314 YEAR OF FEE PAYMENT : 07
EP1982759 A1	20130430	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : LT PAYMENT DATE : 20130219 YEAR OF FEE PAYMENT : 07
EP1982759 A1	20130430	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : FR PAYMENT DATE : 20130408 YEAR OF FEE PAYMENT : 07
EP1982759 A1	20130430	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : GB PAYMENT DATE : 20130321 YEAR OF FEE PAYMENT : 07
EP1982759 A1	20130430	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : DK PAYMENT DATE : 20130320 YEAR OF FEE PAYMENT : 07
EP1982759 A1	20130430	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : HU PAYMENT DATE : 20130325 YEAR OF FEE PAYMENT : 07
EP1982759 A1	20130430	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : IE PAYMENT DATE : 20130322 YEAR OF FEE PAYMENT : 07
EP1982759 A1	20130430	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : FI PAYMENT DATE : 20130313 YEAR OF FEE PAYMENT : 07
EP1982759 A1	20130430	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : EE PAYMENT DATE : 20130315 YEAR OF FEE PAYMENT : 07
EP1982759 A1	20130430	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : SE PAYMENT DATE : 20130321 YEAR OF FEE PAYMENT : 07
EP1982759 A1	20130430	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : RO PAYMENT DATE : 20130226 YEAR OF FEE PAYMENT : 07
EP1982759 A1	20130430	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : ES PAYMENT DATE : 20130326 YEAR OF FEE PAYMENT : 07
EP1982759 A1	20130430	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : LT PAYMENT DATE : 20130219 YEAR OF FEE PAYMENT : 07
EP1982759 A1	20130430	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : SE PAYMENT DATE : 20130321 YEAR OF FEE PAYMENT : 07
EP1982759 A1	20130430	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : CH PAYMENT DATE : 20130322 YEAR OF FEE PAYMENT : 07
EP1982759 A1	20130430	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO	REF COUNTRY CODE : DE PAYMENT DATE : 20130321 YEAR OF FEE PAYMENT : 07

EP1982759 A1	20130430	LSFE	+PGFP	NATIONAL OFFICE POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : RO PAYMENT DATE : 20130226 YEAR OF FEE PAYMENT : 07
EP1982759 A1	20130430	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : DK PAYMENT DATE : 20130320 YEAR OF FEE PAYMENT : 07
EP1982759 A1	20130430	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : IE PAYMENT DATE : 20130322 YEAR OF FEE PAYMENT : 07
EP1982759 A1	20130430	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : FI PAYMENT DATE : 20130313 YEAR OF FEE PAYMENT : 07
EP1982759 A1	20130430	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : EE PAYMENT DATE : 20130315 YEAR OF FEE PAYMENT : 07
EP1982759 A1	20130430	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : CZ PAYMENT DATE : 20130318 YEAR OF FEE PAYMENT : 07
EP1982759 A1	20130430	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : BG PAYMENT DATE : 20130314 YEAR OF FEE PAYMENT : 07
EP1982759 A1	20130430	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : FR PAYMENT DATE : 20130408 YEAR OF FEE PAYMENT : 07
EP1982759 A1	20130430	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : HU PAYMENT DATE : 20130325 YEAR OF FEE PAYMENT : 07
EP1982759 A1	20130430	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : GB PAYMENT DATE : 20130321 YEAR OF FEE PAYMENT : 07
EP1982759 A1	20130531	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : LV PAYMENT DATE : 20130313 YEAR OF FEE PAYMENT : 07
EP1982759 A1	20130531	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : GR PAYMENT DATE : 20130314 YEAR OF FEE PAYMENT : 07
EP1982759 A1	20130531	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : PL PAYMENT DATE : 20130321 YEAR OF FEE PAYMENT : 07
EP1982759 A1	20130531	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : SK PAYMENT DATE : 20130319 YEAR OF FEE PAYMENT : 07
EP1982759 A1	20130531	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : SI PAYMENT DATE : 20130228 YEAR OF FEE PAYMENT : 07
EP1982759 A1	20130531	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : NL PAYMENT DATE : 20130320 YEAR OF FEE PAYMENT : 07
EP1982759 A1	20130531	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : SI PAYMENT DATE : 20130228 YEAR OF FEE PAYMENT : 07
EP1982759 A1	20130531	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : SK PAYMENT DATE : 20130319 YEAR OF FEE PAYMENT : 07

EP1982759 A1	20130531	LSFE	+PGFP	OFFICE POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : LV PAYMENT DATE : 20130313 YEAR OF FEE PAYMENT : 07
EP1982759 A1	20130531	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : GR PAYMENT DATE : 20130314 YEAR OF FEE PAYMENT : 07
EP1982759 A1	20130531	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : NL PAYMENT DATE : 20130320 YEAR OF FEE PAYMENT : 07
EP1982759 A1	20130531	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : PL PAYMENT DATE : 20130321 YEAR OF FEE PAYMENT : 07
EP1982759 A1	20130628	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : PT PAYMENT DATE : 20130318 YEAR OF FEE PAYMENT : 07
EP1982759 A1	20130628	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : AT PAYMENT DATE : 20130313 YEAR OF FEE PAYMENT : 07
EP1982759 A1	20130628	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : AT PAYMENT DATE : 20130313 YEAR OF FEE PAYMENT : 07
EP1982759 A1	20130628	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : PT PAYMENT DATE : 20130318 YEAR OF FEE PAYMENT : 07
EP1982759 A1	20130731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : MT DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT EFFECTIVE DATE : 20110907
EP1982759 A1	20130731	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : BE PAYMENT DATE : 20130320 YEAR OF FEE PAYMENT : 07
EP1982759 A1	20131016	LSAS	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : NL REF LEGAL EVENT CODE : TD EFFECTIVE DATE : 20131004
EP1982759 A1	20131129	LSAS	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : SI REF LEGAL EVENT CODE : SP73 OWNER NAME : OMYA INTERNATIONAL AG; CH EFFECTIVE DATE : 20131028
EP1982759 A1	20140117	LSAS	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : ES REF LEGAL EVENT CODE : PC2A OWNER NAME : OMYA INTERNATIONAL AG EFFECTIVE DATE : 20140113
EP1982759 A1	20140204	LSAS	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : SK REF LEGAL EVENT CODE : TC4A REF DOCUMENT NUMBER : E 10780 COUNTRY OF REF DOCUMENT : SK OWNER NAME : OMYA INTERNATIONAL AG, OFTRINGEN, CH EFFECTIVE DATE : 20131220
EP1982759 A1	20140221	LSAS	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : FR REF LEGAL EVENT CODE : CD OWNER NAME : OMYA INTERNATIONAL AG, CH EFFECTIVE DATE : 20140120
EP1982759 A1	20140227	LSAS	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R081 REF DOCUMENT NUMBER : 602007016880 COUNTRY OF REF DOCUMENT : DE OWNER NAME : OMYA INTERNATIONAL AG, CH

EP1982759 A1	20140228	LSAS	REG	REFERENCE TO A NATIONAL CODE	DESCRIPTION : FORMER OWNER: OMYA DEVELOPMENT AG, OFTRINGEN, CH EFFECTIVE DATE : 20140120
					REF COUNTRY CODE : HU REF LEGAL EVENT CODE : HC9C OWNER NAME : OMYA INTERNATIONAL AG, CH DESCRIPTION : FORMER OWNER(S): OMYA DEVELOPMENT AG, CH
EP1982759 A1	20140430	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : SK PAYMENT DATE : 20140321 YEAR OF FEE PAYMENT : 08
EP1982759 A1	20140430	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : IE PAYMENT DATE : 20140325 YEAR OF FEE PAYMENT : 08
EP1982759 A1	20140430	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : CZ PAYMENT DATE : 20140314 YEAR OF FEE PAYMENT : 08
EP1982759 A1	20140430	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : CH PAYMENT DATE : 20140319 YEAR OF FEE PAYMENT : 08
EP1982759 A1	20140430	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : DE PAYMENT DATE : 20140328 YEAR OF FEE PAYMENT : 08
EP1982759 A1	20140430	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : BG PAYMENT DATE : 20140313 YEAR OF FEE PAYMENT : 08
EP1982759 A1	20140430	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : NL PAYMENT DATE : 20140319 YEAR OF FEE PAYMENT : 08
EP1982759 A1	20140430	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : DK PAYMENT DATE : 20140319 YEAR OF FEE PAYMENT : 08
EP1982759 A1	20140430	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : RO PAYMENT DATE : 20140303 YEAR OF FEE PAYMENT : 08
EP1982759 A1	20140430	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : SE PAYMENT DATE : 20140319 YEAR OF FEE PAYMENT : 08
EP1982759 A1	20140430	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : LT PAYMENT DATE : 20140221 YEAR OF FEE PAYMENT : 08
EP1982759 A1	20140430	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : EE PAYMENT DATE : 20140312 YEAR OF FEE PAYMENT : 08
EP1982759 A1	20140430	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : FI PAYMENT DATE : 20140312 YEAR OF FEE PAYMENT : 08
EP1982759 A1	20140530	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : LU DESCRIPTION : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES EFFECTIVE DATE : 20120321
EP1982759 A1	20140530	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : SI PAYMENT DATE : 20140225 YEAR OF FEE PAYMENT : 08
EP1982759 A1	20140530	LSFE	+PGFP	POSTGRANT:	REF COUNTRY CODE : TR

				ANNUAL FEES PAID TO NATIONAL OFFICE	PAYMENT DATE : 20140303 YEAR OF FEE PAYMENT : 08
EP1982759 A1	20140530	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : IT PAYMENT DATE : 20140324 YEAR OF FEE PAYMENT : 08
EP1982759 A1	20140530	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : GR PAYMENT DATE : 20140314 YEAR OF FEE PAYMENT : 08
EP1982759 A1	20140530	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : AT PAYMENT DATE : 20140312 YEAR OF FEE PAYMENT : 08
EP1982759 A1	20140530	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : HU PAYMENT DATE : 20140319 YEAR OF FEE PAYMENT : 08
EP1982759 A1	20140530	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : PL PAYMENT DATE : 20140321 YEAR OF FEE PAYMENT : 08
EP1982759 A1	20140530	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : FR PAYMENT DATE : 20140319 YEAR OF FEE PAYMENT : 08
EP1982759 A1	20140615	LSAS	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : AT REF LEGAL EVENT CODE : HC REF DOCUMENT NUMBER : 523248 COUNTRY OF REF DOCUMENT : AT KIND CODE OF REF DOCUMENT : T OWNER NAME : OMYA INTERNATIONAL AG, CH EFFECTIVE DATE : 20140416
EP1982759 A1	20140630	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : PT PAYMENT DATE : 20140320 YEAR OF FEE PAYMENT : 08
EP1982759 A1	20140630	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : GB PAYMENT DATE : 20140319 YEAR OF FEE PAYMENT : 08
EP1982759 A1	20140630	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : LV PAYMENT DATE : 20140312 YEAR OF FEE PAYMENT : 08
EP1982759 A1	20140731	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : BE PAYMENT DATE : 20140319 YEAR OF FEE PAYMENT : 08
EP1982759 A1	20150216	LSAS	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : EE REF LEGAL EVENT CODE : HC1A REF DOCUMENT NUMBER : E006067 COUNTRY OF REF DOCUMENT : EE
EP1982759 A1	20150430	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : SK PAYMENT DATE : 20150320 YEAR OF FEE PAYMENT : 09
EP1982759 A1	20150430	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : LT PAYMENT DATE : 20150224 YEAR OF FEE PAYMENT : 09
EP1982759 A1	20150430	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : IE PAYMENT DATE : 20150326 YEAR OF FEE PAYMENT : 09
EP1982759 A1	20150430	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : NL PAYMENT DATE : 20150319 YEAR OF FEE PAYMENT : 09
EP1982759 A1	20150430	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : PT PAYMENT DATE : 20150320 YEAR OF FEE PAYMENT : 09

EP1982759 A1	20150430	LSFE	+PGFP	OFFICE POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : BG PAYMENT DATE : 20150312 YEAR OF FEE PAYMENT : 09
EP1982759 A1	20150430	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : CZ PAYMENT DATE : 20150319 YEAR OF FEE PAYMENT : 09
EP1982759 A1	20150430	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : DK PAYMENT DATE : 20150319 YEAR OF FEE PAYMENT : 09
EP1982759 A1	20150430	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : HU PAYMENT DATE : 20150319 YEAR OF FEE PAYMENT : 09
EP1982759 A1	20150430	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : ES PAYMENT DATE : 20150326 YEAR OF FEE PAYMENT : 09
EP1982759 A1	20150430	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : DE PAYMENT DATE : 20150320 YEAR OF FEE PAYMENT : 09
EP1982759 A1	20150430	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : RO PAYMENT DATE : 20150223 YEAR OF FEE PAYMENT : 09
EP1982759 A1	20150430	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : CH PAYMENT DATE : 20150319 YEAR OF FEE PAYMENT : 09
EP1982759 A1	20150430	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : FI PAYMENT DATE : 20150311 YEAR OF FEE PAYMENT : 09
EP1982759 A1	20150430	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : IT PAYMENT DATE : 20150326 YEAR OF FEE PAYMENT : 09
EP1982759 A1	20150430	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : EE PAYMENT DATE : 20150311 YEAR OF FEE PAYMENT : 09
EP1982759 A1	20150529	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : GR PAYMENT DATE : 20150313 YEAR OF FEE PAYMENT : 09
EP1982759 A1	20150529	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : AT PAYMENT DATE : 20150320 YEAR OF FEE PAYMENT : 09
EP1982759 A1	20150529	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : LV PAYMENT DATE : 20150310 YEAR OF FEE PAYMENT : 09
EP1982759 A1	20150529	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : FR PAYMENT DATE : 20150319 YEAR OF FEE PAYMENT : 09
EP1982759 A1	20150529	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : GB PAYMENT DATE : 20150319 YEAR OF FEE PAYMENT : 09
EP1982759 A1	20150529	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : SE PAYMENT DATE : 20150319 YEAR OF FEE PAYMENT : 09
EP1982759 A1	20150529	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : SI PAYMENT DATE : 20150225 YEAR OF FEE PAYMENT : 09

EP1982759 A1	20150529	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : TR PAYMENT DATE : 20150225 YEAR OF FEE PAYMENT : 09
EP1982759 A1	20150630	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : BE PAYMENT DATE : 20150319 YEAR OF FEE PAYMENT : 09
EP1982759 A1	20151015	LSAS	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : PFA OWNER NAME : OMYA INTERNATIONAL AG, CH DESCRIPTION : FORMER OWNER: OMYA DEVELOPMENT AG, CH
EP1982759 A1	20160321	LSFE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : FR REF LEGAL EVENT CODE : PLFP YEAR OF FEE PAYMENT : 10
EP1982759 A1	20160429	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : TR PAYMENT DATE : 20160222 YEAR OF FEE PAYMENT : 10
EP1982759 A1	20160429	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : SK PAYMENT DATE : 20160321 YEAR OF FEE PAYMENT : 10
EP1982759 A1	20160429	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : CZ PAYMENT DATE : 20160318 YEAR OF FEE PAYMENT : 10
EP1982759 A1	20160429	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : BG PAYMENT DATE : 20160311 YEAR OF FEE PAYMENT : 10
EP1982759 A1	20160429	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : CH PAYMENT DATE : 20160323 YEAR OF FEE PAYMENT : 10
EP1982759 A1	20160429	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : EE PAYMENT DATE : 20160311 YEAR OF FEE PAYMENT : 10
EP1982759 A1	20160429	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : NL PAYMENT DATE : 20160321 YEAR OF FEE PAYMENT : 10
EP1982759 A1	20160429	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : LT PAYMENT DATE : 20160218 YEAR OF FEE PAYMENT : 10
EP1982759 A1	20160429	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : IE PAYMENT DATE : 20160323 YEAR OF FEE PAYMENT : 10
EP1982759 A1	20160429	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : ES PAYMENT DATE : 20160309 YEAR OF FEE PAYMENT : 10
EP1982759 A1	20160429	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : DK PAYMENT DATE : 20160321 YEAR OF FEE PAYMENT : 10
EP1982759 A1	20160531	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : FI PAYMENT DATE : 20160311 YEAR OF FEE PAYMENT : 10
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EP1982759 B1	20110907	LSGT	+	granted / extensions (spc, cpc, pte)	
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EP2180944 A1	20100505	LSSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20100201
EP2180944 A1	20100908	LSSES	+17Q	FIRST EXAMINATION REPORT	EFFECTIVE DATE : 20100809
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EP2180944 A1	20140122	LSGT	+INTG	ANNOUNCEMENT OF INTENTION TO GRANT	EFFECTIVE DATE : 20140102
EP2180944 A1	20140319	LSRE	RIN1	INVENTOR (CORRECTION)	INVENTOR NAME : SCHOELKOPF, JOACHIM

EP2180944 A1	20140319	LSRE	RIN1	INVENTOR (CORRECTION)	INVENTOR NAME : GANE, PATRICK A.C.
EP2180944 A1	20140319	LSRE	RIN1	INVENTOR (CORRECTION)	INVENTOR NAME : GANTENBEIN, DANIEL
EP2180944 A1	20140319	LSRE	RIN1	INVENTOR (CORRECTION)	INVENTOR NAME : GERARD, DANIEL E.
EP2180944 A1	20141013	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : NO REF LEGAL EVENT CODE : T2 EFFECTIVE DATE : 20140521
EP2180944 A1	20150429	LSGT	+26N	NO OPPOSITION FILED	EFFECTIVE DATE : 20150224
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EP2180944 A1	20160531	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : HR PAYMENT DATE : 20160222 YEAR OF FEE PAYMENT : 09
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HK1123768 A1	20120615	LSGT	+	granted / extensions (spc, cpc, pte)	
HK1123768 A3	20090626	LSPB	+	published / reissued	
HR20140734 T1	20140829	LSPB	+	published / reissued	
IN01442MN2009 A	20100122	LSPB	+	published / reissued	
IN01892MN2013 A	20140912	LSPB	+	published / reissued	
JP2010521297 T2	20100624	LSPB	+	published / reissued	
JP2010521297 T2	20110311	LSES	+A621	WRITTEN REQUEST FOR APPLICATION EXAMINATION	DESCRIPTION : JAPANESE INTERMEDIATE CODE: A621 EFFECTIVE DATE : 20110310
JP2010521297 T2	20130206	LSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	DESCRIPTION : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20130205
JP2010521297 T2	20130427	LSRE	A521	WRITTEN AMENDMENT	DESCRIPTION : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20130426
JP2010521297 T2	20130522	LSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	DESCRIPTION : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20130521
JP2010521297 T2	20130720	LSRE	A521	WRITTEN AMENDMENT	DESCRIPTION : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20130719
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JP2010521297 T2	20130814	LSGT	+A01	WRITTEN DECISION TO GRANT A PATENT OR TO GRANT A REGISTRATION (UTILITY MODEL)	DESCRIPTION : JAPANESE INTERMEDIATE CODE: A01 EFFECTIVE DATE : 20130813

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JP2010521297 T2	20130830	LSGT	+R150	CERTIFICATE OF PATENT OR REGISTRATION OF UTILITY MODEL	DESCRIPTION : JAPANESE INTERMEDIATE CODE: R150
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JP5351057 B2	20110311	LSSES	+A621	WRITTEN REQUEST FOR APPLICATION EXAMINATION	DESCRIPTION : JAPANESE INTERMEDIATE CODE: A621 EFFECTIVE DATE : 20110310
JP5351057 B2	20130206	LSSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	DESCRIPTION : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20130205
JP5351057 B2	20130427	LSRE	A521	WRITTEN AMENDMENT	DESCRIPTION : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20130426
JP5351057 B2	20130522	LSSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	DESCRIPTION : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20130521
JP5351057 B2	20130720	LSRE	A521	WRITTEN AMENDMENT	DESCRIPTION : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20130719
JP5351057 B2	20130808	LSGT	+TRDD	DECISION OF GRANT OR REJECTION WRITTEN	
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JP5351057 B2	20160830	LSFE	+R250	RECEIPT OF ANNUAL FEES	DESCRIPTION : JAPANESE INTERMEDIATE CODE: R250
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KR101338784 B1	20130717	LSSES	-E902	NOTIFICATION OF REASON FOR REFUSAL	
KR101338784 B1	20131119	LSGT	+E701	DECISION TO GRANT OR REGISTRATION OF PATENT RIGHT	
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KR20090123905 A	20091202	LSPB	+	published / reissued	

MX2009009545 A1	20090916	LSPB	+	published / reissued	
MX2009009545 A1	20100831	LSRE	HH	CORRECTION OR CHANGE IN GENERAL	
MX2009009545 A1	20110908	LSGT	+FG	GRANT OR REGISTRATION	
MX2009009545 A1	20140205	LSAS	HC	CHANGE OF COMPANY NAME OR JURIDICAL STATUS	
NZ578932 A	20120330	LSPB	+	published / reissued	
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NZ578932 A	20121130	LSFE	+RENW	RENEWAL (RENEWAL FEES ACCEPTED)	
NZ578932 A	20150227	LSFE	+RENW	RENEWAL (RENEWAL FEES ACCEPTED)	TEXT : PATENT RENEWED FOR 1 YEAR UNTIL 19 MAR 2016 BY DENNEMEYER + CO EFFECTIVE DATE : 20150218
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PA8772801 A1	20081119	LSPB	+	published / reissued	
PE16262008 A1	20081209	LSPB	+	published / reissued	
PE16262008 A1	20120628	LSGT	+FG	GRANT, REGISTRATION	
PT1982759 T	20111223	LSGT	+	granted / extensions (spc, cpc, pte)	
RU2009138752 A	20110427	LSPB	+	published / reissued	
RU2482068 C2	20130520	LSGT	+	granted / extensions (spc, cpc, pte)	
RU2482068 C2	20140127	LSAS	PD4A	CORRECTION OF NAME OF PATENT OWNER	
SI1982759 T1	20120229	LSGT	+	granted / extensions (spc, cpc, pte)	
TH131204 A	20140207	LSPB	+	published / reissued	
TW200914380 A	20090401	LSPB	+	published / reissued	
TWI445670 B	20140721	LSGT	+	granted / extensions (spc, cpc, pte)	
UA102995 C2	20130910	LSGT	+	granted / extensions (spc, cpc, pte)	
US2010086987 AA	20100408	LSPB	+	published / reissued	
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US2010086987 AA	20091113	LSAS	AS	ASSIGNMENT	OWNER NAME : OMYA DEVELOPEMENT AG,SWITZERLAND DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:GANE, PATRICK A.C.; SCHOLKOPF, JOACHIM; GANTENBEIN, DANIELAND OTHERS; SIGNED BETWEEN 20090909 AND 20090914; US-ASSIGNMENT DATABASE UPDATED:20100408;

					REEL/FRAME:23520/215
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US2014209831 AA	20140731	LSPB	+	published / reissued	
US8728322 BB	20140520	LSGT	+	granted / extensions (spc, cpc, pte)	
US8728322 BB	20091113	LSAS	AS	ASSIGNMENT	OWNER NAME : OMYA DEVELOPEMENT AG, SWITZERLAND DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:GANE, PATRICK A.C.; SCHOLKOPF, JOACHIM; GANTENBEIN, DANIEL; AND OTHERS; SIGNING DATES FROM 20090909 TO 20090914; REEL/FRAME:023520/0215
UY30968 A1	20081031	LSPB	+	published / reissued	
WO08113840 A1	20080925	LSPB	+	published / reissued	
WO08113840 A1	20090804	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2008228253 COUNTRY OF REF DOCUMENT : AU
WO08113840 A1	20090807	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 578932 COUNTRY OF REF DOCUMENT : NZ
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WO08113840 A1	20091021	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2009138752 COUNTRY OF REF DOCUMENT : RU
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ZA200905533 A	20101027	LSGT	+	granted / extensions (spc, cpc, pte)	

Title: SURFACE-REACTED CALCIUM CARBONATE IN COMBINATION WITH HYDROPHOBIC ADSORBENT FOR WATER TREATMENT

Abstract: Source: US2010133195A The present invention relates to a process for reducing the amount of organic components in water, wherein a surface-reacted natural calcium carbonate and a hydrophobic adsorbent, selected from the group consisting of talc, hydrophobised calcium carbonate, hydrophobised bentonite, hydrophobised kaolinite, hydrophobised glass, or any mixture thereof, are brought into contact with the water to be purified, the surface-reacted natural calcium carbonate being the reaction product of a natural calcium carbonate with an acid and carbon dioxide, which is formed in situ by the acid treatment and/or supplied externally, and the surface-reacted natural calcium carbonate being prepared as an aqueous suspension having a pH of greater than 6.0, measured at 20 degrees centigrade

Classifications:

International (IPC 8-9): B01D15/04 B01D39/00 B01J20/02 B01J20/04 B01J20/16 C01D7/00 C02F1/00 C02F1/26 C02F1/28 C02F101/30 (Advanced/Invention); C02F1/28 C02F101/30 C02F103/02 C02F103/28 C02F103/32 (Advanced/Non-invention); B01D39/00 C01D7/00 C02F1/00 C02F1/26 C02F1/28 (Core/Invention); C02F (Subclass/Invention)

International (IPC 1-7): C01F11/18 C02F1/28

CPC: B01J20/28004 B01J20/28054 B01J20/28057 C02F1/281 B01J20/043 B01J2220/42 C02F1/56 C02F2101/30 C02F2103/28

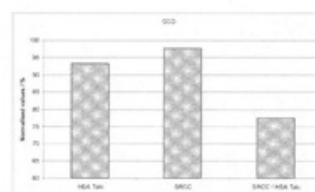
European: B01J20/04 B01J20/04D B01J20/10 B01J20/12 C02F1/28B L01J20/04D L01J220/42 M02F1/56 M02F101/30 M02F103/28 Y02C10/08

US: 210/502.1 210/502.100S 210/667 210/691 210/692 210/693 210/694 502/417

PatBase - US2010133195_AA

Patent Application Publication Jun. 3, 2010 Sheet 1 of 2 US 2010/0133195 A1

Figure 1



Family:

Publication number	Publication date	Application number	Application date
AR066957 AA	20090923	AR2008P102480	20080611
AT426577 E	20090415	AT20070110381T	20070615
AU2008264004 AA	20081218	AU20080264004	20080606
AU2008264004 BB	20120712	AU20080264004	20080606
BRPI0812717 A2	20141223	BR2008PI12717	20080606
CA2690866 AA	20091208	CA20082690866	20080606
CA2690866 C	20130806	CA20082690866	20080606
CL2008001731 A1	20090306	CL20080001731	20080612
CL48861 B	20130129	CL20080001731	20080612
CN101679077 A	20100324	CN200880020287	20080606
CN101679077 B	20130508	CN200880020287	20080606
CO6241147 A2	20110120	CO20090132441	20091120
DE602007000783 D1	20090507	DE200760000783T	20070615
DK2011766 T3	20090629	DK20070110381T	20070615
EP2011766 A1	20090107	EP20070110381	20070615
EP2011766 B1	20090325	EP20070110381	20070615
ES2324739 T3	20090813	ES20070110381T	20070615
HK1128278 A1	20100129	HK20090106087	20090707
HR20090342 T1	20090731	HR20090000342	20090615
IN02183MN2009 A	20100604	IN2009MN02183	20091124
IN271430 B	20160226	IN2009MN02183	20091124
JP2010529904 T2	20100902	JP20100511594T	20080606
JP5405454 B2	20140205	JP20100511594T	20080606
KR101494926 B1	20150223	KR20107001053	20080606
KR20100044783 A	20100430	KR20107001053	20080606
MX2009013074 A1	20100118	MX20090013074	20080606
NO20100062 A	20100115	NO20100000062	20100115
PE04722009 A1	20090513	PE20080001015	20080613
PT2011766 T	20090625	PT20070110381T	20070615
RU2010101105 A	20110720	RU20100101105	20080606
RU2463256 C2	20121010	RU20100101105	20080606
SI2011766 T1	20090831	SI20070030036T	20070615
UA98963 C2	20120710	UA20100000381	20080606
US2010133195 AA	20100603	US20080451406	20080606
US8470181 BB	20130625	US20080451406	20080606
UY31150 A1	20090130	UY20080031150	20080613
WO08151991 A1	20081218	WO2008EP57071	20080606

Priority:

EP20070110381 20070615 WO2008EP57071 20080606

Probable Assignee: OMYA INT AG

Assignee(s): (std): GANE PATRICK A C ; GANTENBEIN DANIEL ; OMIA DEV AG ; OMYA DEVELOPMENT AG ; SCHOELKOPF JOACHIM ; SCHOLKOPF JOACHIM

Assignee(s): OMYA INT AG ; OMIA DEVELOPMENT AG ; OMYA DEVELOPEMENT AG

Inventor(s): (std): GANE PATRIC A C ; GANE PATRICK ; GANE PATRICK A ; GANE PATRICK A C ; DANIEL GANTENBEIN ; GANTENBAJN DANIEHL ; GANTENBEIN DANIEL ; GATENBEIN DANIEL ; GEJN PATRIK A K ; JOACHIM SCHOELKOPF ; SCHOELKOPF JOACHIM ; SCHOLKOPF JOACHIM ; SHELKOPF JOAKHIM

Inventor(s): PATRICK A C GANE ; PATRICK AC GANE ; PATRICK ACGANE ; GANTENBAJN DANIEHL' ; DANIEL GATENBEIN ; GANE PATRICK AC

Agent(s): SPRUSON AND FERGUSON; ROBIC; VILLASECA; ALICIA LLOREDA RICAURTE; MAIWALD WALTER; TSUBOKURA MICHIAKI; OSAKI KATSUMASA; KAWAGUTI AND PARTNERS; AMSTER ROTHSTEIN AND EBENSTEIN LLP; HANSEN NORBERT

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AR066957 AA	20090923	LSPB	+	published / reissued	
AR066957 AA	20151028	LSGT	+FG	GRANT, REGISTRATION	
AT426577 E	20090415	LSGT	+	granted / extensions (spc, cpc, pte)	
AT426577 E	20091115	LSPB	+UEP	PUBLICATION OF TRANSLATION OF EUROPEAN PATENT SPECIFICATION	REF DOCUMENT NUMBER : 2011766 COUNTRY OF REF DOCUMENT : EP
AU2008264004 AA	20081218	LSPB	+	published / reissued	
AU2008264004 AA	20121108	LSGT	+FGA	LETTERS PATENT SEALED OR GRANTED (STANDARD PATENT)	
AU2008264004 BB	20120712	LSGT	+	granted / extensions (spc, cpc, pte)	
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BRPI0812717 A2	20150526	LSAS	B25D	REQUESTED CHANGE OF NAME OF APPLICANT APPROVED	OWNER NAME : OMYA INTERNATIONAL AG (CH)
CA2690866 AA	20091208	LSPB	+	published / reissued	
CA2690866 AA	20091208	LSNP	+AFNE	NATIONAL PHASE ENTRY	
CA2690866 AA	20110601	LSSES	+EEER	EXAMINATION REQUEST	
CA2690866 AA	20110622	LSSES	+EEER	EXAMINATION REQUEST	EFFECTIVE DATE : 20110601
CA2690866 C	20130806	LSGT	+	granted / extensions (spc, cpc, pte)	
CL2008001731 A1	20090306	LSPB	+	published / reissued	
CL48861 B	20130129	LSGT	+	granted / extensions (spc, cpc, pte)	
CN101679077 A	20100324	LSPB	+	published / reissued	
CN101679077 A	20100324	LSPB	+C06	PUBLICATION	
CN101679077 A	20130508	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	
CN101679077 A	20140416	LSAS	C56	CHANGE IN THE NAME OR ADDRESS OF THE PATENTEE	
CN101679077 A	20140416	LSAS	C56	CHANGE IN THE NAME OR ADDRESS OF THE PATENTEE	OWNER NAME : OMYA INTERNATIONAL AG DESCRIPTION : FORMER NAME: OMYA SAS
CN101679077 B	20130508	LSGT	+	granted / extensions (spc, cpc, pte)	
CO6241147 A2	20110120	LSPB	+	published / reissued	
CO6241147 A2	20140624	LSRV	-FC	APPLICATION REFUSED	
DE602007000783 D1	20100415	LSGT	+8364	NO OPPOSITION DURING TERM OF	

				OPPOSITION	
DK2011766 T3	20090629	LSGT	+	granted / extensions (spc, cpc, pte)	
EP2011766 A1	20090107	LSPB	+	published / reissued	
EP2011766 A1	20090107	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20070615
EP2011766 A1	20090325	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : GB REF LEGAL EVENT CODE : FG4D
EP2011766 A1	20090331	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : EP
EP2011766 A1	20090429	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : IE REF LEGAL EVENT CODE : FG4D
EP2011766 A1	20090624	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : RO REF LEGAL EVENT CODE : EPE
EP2011766 A1	20090713	LSRE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : GR REF LEGAL EVENT CODE : EP REF DOCUMENT NUMBER : 20090401551 COUNTRY OF REF DOCUMENT : GR
EP2011766 A1	20090813	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : ES REF LEGAL EVENT CODE : FG2A REF DOCUMENT NUMBER : 2324739 COUNTRY OF REF DOCUMENT : ES KIND CODE OF REF DOCUMENT : T3 DESIGNATED STATE(S) :
EP2011766 A1	20090909	LSFE	+AKX	PAYMENT OF DESIGNATION FEES	COUNTRY OF REF DOCUMENT : AT COUNTRY OF REF DOCUMENT : BE COUNTRY OF REF DOCUMENT : BG COUNTRY OF REF DOCUMENT : CH COUNTRY OF REF DOCUMENT : CY COUNTRY OF REF DOCUMENT : CZ COUNTRY OF REF DOCUMENT : DE COUNTRY OF REF DOCUMENT : DK COUNTRY OF REF DOCUMENT : EE COUNTRY OF REF DOCUMENT : ES COUNTRY OF REF DOCUMENT : FI COUNTRY OF REF DOCUMENT : FR COUNTRY OF REF DOCUMENT : GB COUNTRY OF REF DOCUMENT : GR COUNTRY OF REF DOCUMENT : HU COUNTRY OF REF DOCUMENT : IE COUNTRY OF REF DOCUMENT : IS COUNTRY OF REF DOCUMENT : IT COUNTRY OF REF DOCUMENT : LI COUNTRY OF REF DOCUMENT : LT COUNTRY OF REF DOCUMENT : LU COUNTRY OF REF DOCUMENT : LV COUNTRY OF REF DOCUMENT : MC COUNTRY OF REF DOCUMENT : MT COUNTRY OF REF DOCUMENT : NL COUNTRY OF REF DOCUMENT : PL COUNTRY OF REF DOCUMENT : PT COUNTRY OF REF DOCUMENT : RO COUNTRY OF REF DOCUMENT : SE COUNTRY OF REF

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EP2011766 A1	20090909	LSFE	+AXX	PAYMENT OF EXTENSION FEES	COUNTRY OF REF DOCUMENT : BA PAYMENT DATE : 20090129
EP2011766 A1	20090909	LSFE	+AXX	PAYMENT OF EXTENSION FEES	COUNTRY OF REF DOCUMENT : HR PAYMENT DATE : 20090129
EP2011766 A1	20090909	LSFE	+AXX	PAYMENT OF EXTENSION FEES	COUNTRY OF REF DOCUMENT : MK PAYMENT DATE : 20090129
EP2011766 A1	20090909	LSFE	+AXX	PAYMENT OF EXTENSION FEES	COUNTRY OF REF DOCUMENT : RS PAYMENT DATE : 20090129
EP2011766 A1	20091130	LSAS	REG	REFERENCE TO A NATIONAL CODE	PARTYTYPE : OWNER REF COUNTRY CODE : CH OWNER : OMYA DEVELOPMENT AG REF LEGAL EVENT CODE : PFA OLDPARTY : OMYA DEVELOPMENT AG#BASLERSTRASSE 42#4665 OFTRINGEN (CH) - TRANSFER TO- OMYA DEVELOPMENT AG#BASLERSTRASSE 42#4665 OFTRINGEN (CH)
EP2011766 A1	20100129	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : MC NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON- PAYMENT OF DUE FEES LAPSED DATE : 20090630
EP2011766 A1	20100129	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : HK REF LEGAL EVENT CODE : GR REF DOCUMENT NUMBER : 1128278 COUNTRY OF REF DOCUMENT : HK
EP2011766 A1	20100301	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : HU REF LEGAL EVENT CODE : AG4A REF DOCUMENT NUMBER : E006611 COUNTRY OF REF DOCUMENT : HU
EP2011766 A1	20100303	LSGT	+26N	NO OPPOSITION FILED	EFFECTIVE DATE : 20091229
EP2011766 A1	20110331	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : IT NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON- PAYMENT OF DUE FEES LAPSED DATE : 20100615
EP2011766 A1	20110930	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : CY NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20090325
EP2011766 A1	20131016	LSAS	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : NL REF LEGAL EVENT CODE : TD EFFECTIVE DATE : 20131004
EP2011766 A1	20131129	LSAS	REG	REFERENCE TO A NATIONAL CODE	PARTYTYPE : OWNER REF COUNTRY CODE : SI OWNER : OMYA INTERNATIONAL AG; CH REF LEGAL EVENT CODE : SP73 EFFECTIVE DATE : 20131028

EP2011766 A1	20140117	LSAS	REG	REFERENCE TO A NATIONAL CODE	PARTYTYPE : OWNER REF COUNTRY CODE : ES OWNER : OMYA INTERNATIONAL AG REF LEGAL EVENT CODE : PC2A EFFECTIVE DATE : 20140113
EP2011766 A1	20140128	LSAS	REG	REFERENCE TO A NATIONAL CODE	PARTYTYPE : OWNER REF COUNTRY CODE : HU OWNER : OMYA INTERNATIONAL AG, CH REF LEGAL EVENT CODE : HC9C OLDPARTY : FORMER OWNER(S): OMYA DEVELOPMENT AG, CH
EP2011766 A1	20140204	LSAS	REG	REFERENCE TO A NATIONAL CODE	PARTYTYPE : OWNER REF COUNTRY CODE : SK OWNER : OMYA INTERNATIONAL AG, OFTRINGEN, CH REF LEGAL EVENT CODE : TC4A REF DOCUMENT NUMBER : E5818 COUNTRY OF REF DOCUMENT : SK EFFECTIVE DATE : 20131218
EP2011766 A1	20140221	LSAS	REG	REFERENCE TO A NATIONAL CODE	PARTYTYPE : OWNER REF COUNTRY CODE : FR OWNER : OMYA INTERNATIONAL AG, CH REF LEGAL EVENT CODE : CD EFFECTIVE DATE : 20140120
EP2011766 A1	20140227	LSAS	REG	REFERENCE TO A NATIONAL CODE	PARTYTYPE : OWNER REF COUNTRY CODE : DE OWNER : OMYA INTERNATIONAL AG, CH REF LEGAL EVENT CODE : R081 REF DOCUMENT NUMBER : 602007000783 COUNTRY OF REF DOCUMENT : DE OLDPARTY : FORMER OWNER: OMYA DEVELOPMENT AG, OFTRINGEN, CH EFFECTIVE DATE : 20140120
EP2011766 A1	20140615	LSAS	REG	REFERENCE TO A NATIONAL CODE	PARTYTYPE : OWNER REF COUNTRY CODE : AT OWNER : OMYA INTERNATIONAL AG, CH REF LEGAL EVENT CODE : HC REF DOCUMENT NUMBER : 426577 COUNTRY OF REF DOCUMENT : AT KIND CODE OF REF DOCUMENT : T DESIGNATED STATE(S) : EFFECTIVE DATE : 20140416
EP2011766 A1	20150216	LSAS	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : EE REF LEGAL EVENT CODE : HC1A REF DOCUMENT NUMBER : E003297 COUNTRY OF REF DOCUMENT : EE
EP2011766 A1	20151015	LSAS	REG	REFERENCE TO A NATIONAL CODE	PARTYTYPE : OWNER REF COUNTRY CODE : CH OWNER : OMYA INTERNATIONAL AG, CH REF LEGAL EVENT CODE : PFA OLDPARTY : FORMER OWNER: OMYA DEVELOPMENT AG, CH
EP2011766 A1	20160627	LSFE	REG	REFERENCE TO A NATIONAL CODE	COUNTRY OF REF DOCUMENT : FR REF COUNTRY CODE : FR REF LEGAL EVENT CODE : PLFP YEAR OF FEE PAYMENT : 10

EP2011766 A1	20160729	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : ES PAYMENT DATE : 20160614 YEAR OF FEE PAYMENT : 10
EP2011766 A1	20160729	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : LU PAYMENT DATE : 20160622 YEAR OF FEE PAYMENT : 10
EP2011766 A1	20160729	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : IE PAYMENT DATE : 20160621 YEAR OF FEE PAYMENT : 10
EP2011766 A1	20160729	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : GB PAYMENT DATE : 20160621 YEAR OF FEE PAYMENT : 10
EP2011766 A1	20160729	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : GR PAYMENT DATE : 20160615 YEAR OF FEE PAYMENT : 10
EP2011766 A1	20160729	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : CH PAYMENT DATE : 20160620 YEAR OF FEE PAYMENT : 10
EP2011766 A1	20160729	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : DE PAYMENT DATE : 20160621 YEAR OF FEE PAYMENT : 10
EP2011766 A1	20160729	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : CZ PAYMENT DATE : 20160614 YEAR OF FEE PAYMENT : 10
EP2011766 A1	20160729	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : BG PAYMENT DATE : 20160613 YEAR OF FEE PAYMENT : 10
EP2011766 A1	20160729	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : FI PAYMENT DATE : 20160613 YEAR OF FEE PAYMENT : 10
EP2011766 A1	20160831	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : HU PAYMENT DATE : 20160615 YEAR OF FEE PAYMENT : 10
EP2011766 A1	20160831	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : DK PAYMENT DATE : 20160620 YEAR OF FEE PAYMENT : 10
EP2011766 A1	20160831	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : PL PAYMENT DATE : 20160609 YEAR OF FEE PAYMENT : 10
EP2011766 A1	20160831	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : LV PAYMENT DATE : 20160613 YEAR OF FEE PAYMENT : 10
EP2011766 A1	20160831	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : BE PAYMENT DATE : 20160620 YEAR OF FEE PAYMENT : 10
EP2011766 A1	20160831	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : EE PAYMENT DATE : 20160613 YEAR OF FEE PAYMENT : 10
EP2011766 A1	20160831	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : SI PAYMENT DATE : 20160525 YEAR OF FEE PAYMENT : 10
EP2011766 A1	20160831	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : LT PAYMENT DATE : 20160520 YEAR OF FEE PAYMENT : 10

EP2011766 A1	20160831	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : SE PAYMENT DATE : 20160620 YEAR OF FEE PAYMENT : 10
EP2011766 A1	20160831	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : PT PAYMENT DATE : 20160614 YEAR OF FEE PAYMENT : 10
EP2011766 A1	20160831	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : IS PAYMENT DATE : 20160519 YEAR OF FEE PAYMENT : 10
EP2011766 A1	20160831	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : AT PAYMENT DATE : 20160621 YEAR OF FEE PAYMENT : 10
EP2011766 A1	20160831	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : NL PAYMENT DATE : 20160620 YEAR OF FEE PAYMENT : 10
EP2011766 A1	20160831	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : TR PAYMENT DATE : 20160527 YEAR OF FEE PAYMENT : 10
EP2011766 A1	20160831	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : FR PAYMENT DATE : 20160627 YEAR OF FEE PAYMENT : 10
EP2011766 A1	20160831	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : RO PAYMENT DATE : 20160601 YEAR OF FEE PAYMENT : 10
EP2011766 A1	20160831	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : SK PAYMENT DATE : 20160614 YEAR OF FEE PAYMENT : 10
EP2011766 A1	20160930	LSAS	REG	REFERENCE TO A NATIONAL CODE	PARTYTYPE : OWNER REF COUNTRY CODE : CH OWNER : OMYA INTERNATIONAL AG, CH REF LEGAL EVENT CODE : PFA OLDPARTY : FORMER OWNER : OMYA INTERNATIONAL AG, CH
EP2011766 A1	20161031	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : IT PAYMENT DATE : 20160628 YEAR OF FEE PAYMENT : 10
EP2011766 A1	20161230	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : MT PAYMENT DATE : 20150526 YEAR OF FEE PAYMENT : 9
EP2011766 B1	20090325	LSGT	+	granted / extensions (spc, cpc, pte)	
ES2324739 T3	20090813	LSGT	+	granted / extensions (spc, cpc, pte)	
HK1128278 A1	20100129	LSGT	+	granted / extensions (spc, cpc, pte)	
HR20090342 T1	20090731	LSPB	+	published / reissued	
IN02183MN2009 A	20100604	LSPB	+	published / reissued	
IN271430 B	20160226	LSGT	+	granted / extensions (spc, cpc, pte)	
JP2010529904 T2	20100902	LSPB	+	published / reissued	
JP2010529904 T2	20110525	LSES	+A621	WRITTEN REQUEST FOR APPLICATION EXAMINATION	DESCRIPTION : JAPANESE INTERMEDIATE CODE: A621 EFFECTIVE DATE : 20110524
JP2010529904 T2	20121226	LSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	DESCRIPTION : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20121225

JP2010529904 T2	20130326	LSRE	A521	WRITTEN AMENDMENT	DESCRIPTION : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20130325
JP2010529904 T2	20131002	LSGT	+A01	WRITTEN DECISION TO GRANT A PATENT OR TO GRANT A REGISTRATION (UTILITY MODEL)	DESCRIPTION : JAPANESE INTERMEDIATE CODE: A01 EFFECTIVE DATE : 20131001
JP5405454 B2	20140205	LSGT	+	granted / extensions (spc, cpc, pte)	
JP5405454 B2	20131107	LSFE	+A61	FIRST PAYMENT OF ANNUAL FEES (DURING GRANT PROCEDURE)	DESCRIPTION : JAPANESE INTERMEDIATE CODE: A61 EFFECTIVE DATE : 20131030
JP5405454 B2	20131108	LSGT	+R150	CERTIFICATE OF PATENT OR REGISTRATION OF UTILITY MODEL	DESCRIPTION : JAPANESE INTERMEDIATE CODE: R150
JP5405454 B2	20140207	LSAS	S533	WRITTEN REQUEST FOR REGISTRATION OF CHANGE OF NAME	DESCRIPTION : JAPANESE INTERMEDIATE CODE: R313533
JP5405454 B2	20140218	LSAS	R350	WRITTEN NOTIFICATION OF REGISTRATION OF TRANSFER	DESCRIPTION : JAPANESE INTERMEDIATE CODE: R350
JP5405454 B2	20161108	LSFE	+R250	RECEIPT OF ANNUAL FEES	DESCRIPTION : JAPANESE INTERMEDIATE CODE: R250
KR101494926 B1	20150223	LSGT	+	granted / extensions (spc, cpc, pte)	
KR101494926 B1	20150130	LSGT	+E701	DECISION TO GRANT OR REGISTRATION OF PATENT RIGHT	
KR101494926 B1	20150212	LSGT	+GRNT	WRITTEN DECISION TO GRANT	
KR20100044783 A	20100430	LSPB	+	published / reissued	
KR20100044783 A	20130423	LSES	A201	REQUEST FOR EXAMINATION	
MX2009013074 A1	20100118	LSPB	+	published / reissued	
MX2009013074 A1	20100831	LSRE	HH	CORRECTION OR CHANGE IN GENERAL	
MX2009013074 A1	20110705	LSGT	+FG	GRANT OR REGISTRATION	
MX2009013074 A1	20140205	LSAS	HC	CHANGE OF COMPANY NAME OR JURIDICAL STATUS	
NO20100062 A	20100115	LSPB	+	published / reissued	
NO20100062 A	20140303	LSAS	CHAD	CHANGE OF THE OWNER'S NAME OR ADDRESS (PAR. 44 PATENT LAW, PAR. PATENTFORSKRIFTEN)	OWNER NAME : OMYA INTERNATIONAL AG, CH
PE04722009 A1	20090513	LSPB	+	published / reissued	
PE04722009 A1	20120731	LSGT	+FG	GRANT, REGISTRATION	
PT2011766 T	20090625	LSGT	+	granted / extensions (spc, cpc, pte)	
RU2010101105 A	20110720	LSPB	+	published / reissued	
RU2463256 C2	20121010	LSGT	+	granted / extensions (spc, cpc, pte)	
RU2463256 C2	20140127	LSAS	PD4A	CORRECTION OF NAME OF PATENT OWNER	
SI2011766 T1	20090831	LSGT	+	granted / extensions (spc, cpc, pte)	
UA98963 C2	20120710	LSGT	+	granted / extensions (spc, cpc, pte)	
US2010133195 AA	20100603	LSPB	+	published / reissued	
US8470181 BB	20130625	LSGT	+	granted / extensions (spc, cpc, pte)	
US8470181 BB	20091203	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : OMYA DEVELOPMENT AG,SWITZERLAND OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST;

					ASSIGNORS: GANE, PATRICK A.C.; SCHOLKOPF, JOACHIM; GANTENBEIN, DANIEL; REEL/FRAME: 023624/0802 EFFECTIVE DATE : 20091104
US8470181 BB	20091203	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : OMYA DEVELOPMENT AG, SWITZERLAND OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS: GANE, PATRICK A.C.; SCHOLKOPF, JOACHIM; GANTENBEIN, DANIEL; REEL/FRAME: 023624/0802 EFFECTIVE DATE : 20091104
US8470181 BB	20131014	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : OMYA INTERNATIONAL AG, SWITZERLAND OLDPARTY : CHANGE OF NAME; ASSIGNOR: OMYA DEVELOPMENT AG; REEL/FRAME: 031406/0917 EFFECTIVE DATE : 20130703
US8470181 BB	20161213	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
UY31150 A1	20090130	LSPB	+	published / reissued	
WO08151991 A1	20081218	LSPB	+	published / reissued	
WO08151991 A1	20091103	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2008264004 COUNTRY OF REF DOCUMENT : AU
WO08151991 A1	20091110	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 12451406 COUNTRY OF REF DOCUMENT : US
WO08151991 A1	20091203	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 2008264004 COUNTRY OF REF DOCUMENT : AU DATE OF REF DOCUMENT : 20080606 KIND CODE OF REF DOCUMENT : A
WO08151991 A1	20091208	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2690866 COUNTRY OF REF DOCUMENT : CA
WO08151991 A1	20091214	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 2010511594 COUNTRY OF REF DOCUMENT : JP KIND CODE OF REF DOCUMENT : A
WO08151991 A1	20091214	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2010511594 COUNTRY OF REF DOCUMENT : JP
WO08151991 A1	20091216	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : DE
WO08151991 A1	20100115	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 20107001053 COUNTRY OF REF DOCUMENT : KR KIND CODE OF REF DOCUMENT : A
WO08151991 A1	20100115	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2010101105 COUNTRY OF REF DOCUMENT : RU
WO08151991 A1	20100115	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : A201000381 COUNTRY OF REF DOCUMENT : UA

WO08151991 A1	20100728	LSNE	-122	EP: PCT APPLICATION NON-ENTRY IN EUROPEAN PHASE	REF DOCUMENT NUMBER : 08760644 COUNTRY OF REF DOCUMENT : EP KIND CODE OF REF DOCUMENT : A1
WO08151991 A1	20141223	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : PI0812717 COUNTRY OF REF DOCUMENT : BR KIND CODE OF REF DOCUMENT : A2 EFFECTIVE DATE : 20091211

Title: REMINERALIZATION OF DESALINATED AND OF FRESH WATER BY DOSING OF A CALCIUM CARBONATE SOLUTION IN SOFT WATER

Abstract: Source: US2014209544A The present invention concerns a process for treating water and the use of calcium carbonate in such a process. In particular, the present invention is directed to a process for remineralization of water comprising the steps of providing feed water, providing an aqueous solution of calcium carbonate, wherein the aqueous solution of calcium carbonate comprises dissolved calcium carbonate and reaction species thereof, and combining the feed water and the aqueous calcium carbonate solution.

Classifications:

International (IPC 8-9): C01F11/00 C01F11/18 C02F C02F1/00

C02F1/08 C02F1/66 C02F1/68 C02F103/06

C02F103/42 (Advanced/Invention);

C02F103/00 C02F103/06 C02F103/08 C02F103/42 (Advanced/Non-invention);

C02F1/00 C02F1/68 (Core/Invention);

C02F (Subclass/Invention)

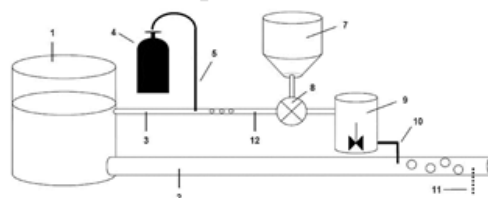
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C02F2209/055 C02F2209/06 C02F2209/07 C02F2209/10

C02F2209/11 C02F2209/24 C02F1/68 C02F2103/001 C02F2103/08

US: 210/749

PatBase - US2014209544_AA



Family:

Publication number	Publication date	Application number	Application date
AR087720 AA	20140409	AR2012P103195	20120829
AU2012301003 AA	20130307	AU20120301003	20120828
AU2012301003 BB	20160505	AU20120301003	20120828
CA2844656 AA	20140207	CA20122844656	20120828
CL2014000510 A1	20140922	CL20140000510	20140228
CN103827044 A	20140528	CN201280042202	20120828
CN103827044 B	20170322	CN201280042202	20120828
CR20140074 A	20140625	CR20140000074	20140217
DE602011028735 D1	20160908	DE201160028735T	20110831
DK2565165 T3	20161205	DK20110179541T	20110831
EA201490513 A1	20140630	EA20140090513	20120828
EP2565165 A1	20130306	EP20110179541	20110831
EP2565165 B1	20160803	EP20110179541	20110831
EP2751036 A1	20140709	EP20120753473	20120828
ES2601883 T3	20170216	ES20110179541T	20110831
HR20161373 T1	20161202	HR20160001373	20161020
IL230852 A0	20140331	IL20120230852	20120828
IN00358MN2014 A	20150619	IN2014MN00358	20140226
JP2014525345 T2	20140929	JP20140527627T	20120828
JP2016155126 A2	20160901	JP20160040695	20160303
JP5926803 B2	20160525	JP20140527627T	20120828
KR20140054387 A	20140508	KR20147008260	20120828
KR20160085900 A	20160718	KR20167017321	20120828
LT2565165 T	20161125	LT20110179541T	20110831
MA35442 B1	20140901	MA20140036831	20140313
MX2014002252 A1	20140430	MX20140002252	20120828
PE09402014 A1	20140806	PE20140000289	20120828
RS55244 B1	20170228	RS20160000877	20110831
SG2014012041 A1	20140730	SG20140012041	20120828
SI2565165 T1	20161130	SI20110030987	20110831
TH146439 A	20160229	TH20141000992	20120828
TW201313621 A	20130401	TW20120130563	20120823
US2014209544 AA	20140731	US20120237394	20120828
UY34297 A1	20130405	UY20120034297	20120829
WO13030185 A1	20130307	WO2012EP66673	20120828
ZA201401555 A	20150527	ZA20140001555	20140228

Priority:

EP20110017954	20110831	EP20110179541	20110831	US20110531691P	20110907
EP20120753473	20120828	JP20140527627T	20120828	JP20160040695	20160303
WO2012EP66673	20120828	US20120237394	20120828		

Probable Assignee: OMYA INT AG

Assignee(s): (std): OMYA DEVELOPMENT AG ; OMYA INT AG ; POFFET MARTINE ; POHL MICHAEL ; SKOVBY MICHAEL

Inventor(s): (std): SKOVBY MICHAEL ; POHL MICHAEL ; POFFET MARTINE ; SKOVBY MICHAEL ; MICHAEL SKOVBY ; MICHAEL POHL ; MARTINE POFFET

Agent(s): SPRUSON AND FERGUSON; ROBIC; ESTUDIO FEDERICO VILLASECA Y CIA; GLAS HOLGER; DYCK MARTINA; CARVAJAL Y ISABEL; KAWAGUTI AND PARTNERS; TIEFBRUNNER VERA

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Legal status (INPADOC)

View legal status timeline

Patent	Date recorded	Event group	Code	Event	Details
AR087720 AA	20140409	LSPB	+	published / reissued	
AU2012301003 AA	20130307	LSPB	+	published / reissued	
AU2012301003 AA	20160901	LSGT	+FGA	LETTERS PATENT SEALED OR GRANTED (STANDARD PATENT)	
AU2012301003 BB	20160505	LSGT	+	granted / extensions (spc, cpc, pte)	
CA2844656 AA	20140207	LSPB	+	published / reissued	
CL2014000510 A1	20140922	LSPB	+	published / reissued	
CN103827044 A	20140528	LSPB	+	published / reissued	
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CN103827044 B	20170322	LSGT	+	granted / extensions (spc, cpc, pte)	
CR20140074 A	20140625	LSPB	+	published / reissued	
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EP2565165 A1	20130306	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20110831
EP2565165 A1	20131009	LSES	+17Q	FIRST EXAMINATION REPORT	EFFECTIVE DATE : 20130906
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EP2565165 A1	20140423	LSRE	RIN1	INVENTOR (CORRECTION)	PARTYTYPE : INVENTOR INVENTOR : POFFET, MARTINE
EP2565165 A1	20140423	LSRE	RIN1	INVENTOR (CORRECTION)	PARTYTYPE : INVENTOR INVENTOR : SKOVBY, MICHAEL
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EP2565165 A1	20170228	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : IT PAYMENT DATE : 20161129 YEAR OF FEE PAYMENT : 6
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EP2751036 A1	20140709	LSPB	+	published / reissued	
EP2751036 A1	20140709	LSSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20140227
EP2751036 A1	20150121	LSSES	+17Q	FIRST EXAMINATION	EFFECTIVE DATE : 20141223

REPORT					
EP2751036 A1	20160302	LSRE	RIN1	INVENTOR (CORRECTION)	INVENTOR NAME : POFFET, MARTINE
EP2751036 A1	20160302	LSRE	RIN1	INVENTOR (CORRECTION)	INVENTOR NAME : SKOVBY, MICHAEL
EP2751036 A1	20160302	LSRE	RIN1	INVENTOR (CORRECTION)	INVENTOR NAME : POHL, MICHAEL
ES2601883 T3	20170216	LSGT	+	granted / extensions (spc, cpc, pte)	
HR20161373 T1	20161202	LSPB	+	published / reissued	
IN00358MN2014 A	20150619	LSPB	+	published / reissued	
JP2014525345 T2	20140929	LSPB	+	published / reissued	
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JP2014525345 T2	20150526	LSRE	A521	WRITTEN AMENDMENT	DESCRIPTION : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20150526
JP2014525345 T2	20151105	LSRV	-A02	DECISION OF REFUSAL	DESCRIPTION : JAPANESE INTERMEDIATE CODE: A02 EFFECTIVE DATE : 20151104
JP2014525345 T2	20160303	LSRE	A521	WRITTEN AMENDMENT	DESCRIPTION : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20160303
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JP2014525345 T2	20160406	LSGT	+TRDD	DECISION OF GRANT OR REJECTION WRITTEN	
JP2014525345 T2	20160412	LSGT	+A01	WRITTEN DECISION TO GRANT A PATENT OR TO GRANT A REGISTRATION (UTILITY MODEL)	DESCRIPTION : JAPANESE INTERMEDIATE CODE: A01 EFFECTIVE DATE : 20160412
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JP2016155126 A2	20170117	LSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A132 EFFECTIVE DATE : 20170117
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KR20140054387 A	20140508	LSPB	+	published / reissued	
KR20140054387 A	20140328	LSES	A201	REQUEST FOR EXAMINATION	
KR20140054387 A	20150812	LSES	-E902	NOTIFICATION OF REASON FOR REFUSAL	
KR20140054387 A	20160129	LSRV	-E601	DECISION TO REFUSE APPLICATION	
KR20140054387 A	20160226	LSRE	AMND	AMENDMENT	
KR20160085900 A	20160718	LSPB	+	published / reissued	
LT2565165 T	20161125	LSGT	+	granted / extensions (spc,	

MA35442 B1	20140901	LSGT	+	cpc, pte) granted / extensions (spc, cpc, pte)	
MX2014002252 A1	20140430	LSPB	+	published / reissued	
PE09402014 A1	20140806	LSPB	+	published / reissued	
RS55244 B1	20170228	LSGT	+	granted / extensions (spc, cpc, pte)	
SG2014012041 A1	20140730	LSPB	+	published / reissued	
SI2565165 T1	20161130	LSGT	+	granted / extensions (spc, cpc, pte)	
TH146439 A	20160229	LSPB	+	published / reissued	
TW201313621 A	20130401	LSPB	+	published / reissued	
US2014209544 AA	20140731	LSPB	+	published / reissued	
US2014209544 AA	20140407	LSAS	AS	ASSIGNMENT	OWNER NAME : OMYA INTERNATIONAL AG, SWITZERLAND DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:POFFET, MARTINE; SKOVBY, MICHAEL; POHL, MICHAEL; SIGNING DATES FROM 20140305 TO 20140324; REEL/FRA:032613/0980
UY34297 A1	20130405	LSPB	+	published / reissued	
WO13030185 A1	20130307	LSPB	+	published / reissued	
WO13030185 A1	20140206	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 230852 COUNTRY OF REF DOCUMENT : IL
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WO13030185 A1	20140227	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 2012301003 COUNTRY OF REF DOCUMENT : AU DATE OF REF DOCUMENT : 20120828 KIND CODE OF REF DOCUMENT : A
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Title: SURFACE-TREATED CALCIUM CARBONATE AND ITS USE IN WATER PURIFICATION AND FOR THE DEWATERING OF SLUDGES AND SEDIMENTS

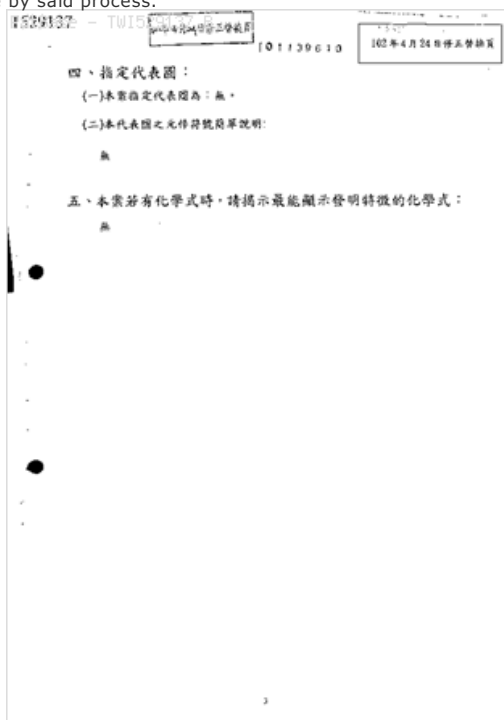
Abstract: Source: US2014284519A The invention relates to a process for the purification of water and/or dewatering of sludges and/or sediments, to the use of a surface-treated calcium carbonate for water purification and/or dewatering of sludges and/or sediments, as well as to the use of a surface-treated calcium carbonate for reducing the amount of polymeric flocculation aids in water and/or sludges and/or sediments and to a composite material comprising a surface-treated calcium carbonate and impurities originated from different sources obtainable by said process.

Classifications:

International (IPC 8-9): B01D21/01 B01J B01J20/04 B01J20/32 C01F11/18 C02F1/28 C02F1/52 C02F1/56 C02F1/66 C02F103/28 C02F11/12 C02F11/14 (Advanced/Invention); C02F1/56 C02F1/66 C02F103/28 (Advanced/Non-invention); B01J20/00 B01J20/04 B01J20/32 C02F1/00 C02F1/28 C02F103/28 C02F11/00 C02F11/14 (Core/Invention); B01J (Subclass/Invention)

CPC: B01J20/043 B01J20/3204 B01J20/327 B01J20/3276 C02F1/66 C02F11/14 C02F2103/007 C02F2103/28 C02F1/288 C02F1/5236 C02F1/56 B01J20/04 B01J20/041 B01J20/32 C02F1/28

US: 210/727 210/728 210/730 210/732 210/733 210/734 210/736 252/176



Family:

Publication number	Publication date	Application number	Application date
AU2012331228 AA	20130510	AU20120331228	20121030
AU2012331228 BB	20150702	AU20120331228	20121030
CA2852599 AA	20140416	CA20122852599	20121030
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CO6940406 A2	20140509	CO20140092006	20140429
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DE602012015713 D1	20160428	DE201260015713T	20121030
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DK2773453 T3	20160627	DK20120778745T	20121030
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EP2773453 B1	20160316	EP20120778745	20121030
ES2548911 T3	20151021	ES20110187987T	20111104
ES2576960 T3	20160712	ES20120778745T	20121030
HR20151207 T1	20151204	HR20150001207	20151111
HR20160660 T1	20160715	HR20160000660	20160613
HU025587 T2	20160428	HU20110187987T	20111104
IL232400 A0	20140630	IL20140232400	20140430
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JP2014533196 T2	20141211	JP20140539310T	20121030
KR101644251 B1	20160729	KR20147014340	20121030
KR20140097240 A	20140806	KR20147014340	20121030
MX2014005268 A1	20140822	MX20140005268	20121030
MX337259 B	20160222	MX20140005268	20121030
NZ624723 A	20150626	NZ20120624723	20121030
PL2773453 T3	20161031	PL20120778745T	20121030
PT2589430 T	20151116	PT20110187987T	20111104
PT2773453 T	20160603	PT20120778745T	20121030
RS54404 B1	20160428	RS20150000741	20111104
RS54771 B1	20161031	RS20160000356	20121030
RU2564289 C1	20150927	RU20140122544	20121030
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SI2589430 T1	20151130	SI20110030607T	20111104
SI2773453 T1	20160630	SI20120030547	20121030
TH146046 A	20160304	TH20141002337	20121030

TW201332904 A	20130816	TW20120139610	20121026
TWI529137 B	20160411	TW20120139610	20121026
US2014284519 AA	20140925	US20120352151	20121030
WO13064492 A1	20130510	WO2012EP71471	20121030

Priority:

EP20110187987 20111104 EP20120778745 20121030 US20110558146P 20111110
WO2012EP71471 20121030 US20120352151 20121030

Probable Assignee: OMYA INT AG

Assignee(s): (std): OMIA INTERNEHSHNL AG ; OMYA DEVELOPMENT AG ; OMYA INT AG

Assignee(s): SKOVBY MICHAEL ; SCHOELKOPF JOACHIM ; GANE PATRICK A C ; GERARD DANIEL E ; HARTAN HANS GEORG

Inventor(s): (std): GEJN PATRIK A K ; GERARD DANIEL ; GERARD DANIEL E ; HANS GEORG HARTAN ; HARTAN HANS GEORG ; JOACHIM SCHOELKOPF ; KHARTAN KHANS GEORG ; MICHAEL SKOVBY ; PATRICK A C GANE ; DANIEL E GERARD ; DZHERARD DEHNIEL E ; SCHOELKOPF JOACHIM ; SHEL KOPF JOAKHIM ; SKOVBI MIKAEHL ; SKOVBY MICHAEL ; GANE PATRICK A C

Inventor(s): GANE PATRICK AC ; GANE PATRICK A ; DANIEL GERARD ; PATRICK AC GANE

Agent(s): SPRUSON AND FERGUSON; ROBIC; ESTUDIO FEDERICO VILLASECA Y COMPANIA; ALICIA LLOREDA RICAURTE; MAIWALD PATENTANWALTSGESELLSCHAFT MBH; GLAS HOLGER; BOOS MELANIE; CARVAJAL Y ISABEL; KAWAGUTI AND PARTNERS; HENRY GOH S PTE LTD

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AU2012331228 AA	20130510	LSPB	+	published / reissued	
AU2012331228 AA	20151029	LSGT	+FGA	LETTERS PATENT SEALED OR GRANTED (STANDARD PATENT)	
AU2012331228 BB	20150702	LSGT	+	granted / extensions (spc, cpc, pte)	
CA2852599 AA	20140416	LSPB	+	published / reissued	
CA2852599 AA	20140603	LSES	+EEER	EXAMINATION REQUEST	EFFECTIVE DATE : 20140416
CA2852599 C	20170228	LSGT	+	granted / extensions (spc, cpc, pte)	
CL2014001101 A1	20140905	LSPB	+	published / reissued	
CN103930200 A	20140716	LSPB	+	published / reissued	
CN103930200 A	20140716	LSPB	+C06	PUBLICATION	
CN103930200 A	20170215	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	
CN103930200 B	20170215	LSGT	+	granted / extensions (spc, cpc, pte)	
CO6940406 A2	20140509	LSPB	+	published / reissued	
DK2589430 T3	20151214	LSGT	+	granted / extensions (spc, cpc, pte)	
DK2773453 T3	20160627	LSGT	+	granted / extensions (spc, cpc, pte)	
EP2589430 A1	20130508	LSPB	+	published / reissued	
EP2589430 A1	20130508	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20111104
EP2589430 A1	20131023	LSAS	RAP1	TRANSFER OF RIGHTS OF AN EP PUBLISHED APPLICATION	PARTYTYPE : OWNER OWNER : OMYA INTERNATIONAL AG
EP2589430 A1	20131211	LSRE	RIN1	INVENTOR (CORRECTION)	PARTYTYPE : INVENTOR INVENTOR : GANE, PATRICK A.C.
EP2589430 A1	20131211	LSRE	RIN1	INVENTOR	PARTYTYPE : INVENTOR

				(CORRECTION)	INVENTOR : GERARD, DANIEL E.
EP2589430 A1	20131211	LSRE	RIN1	INVENTOR (CORRECTION)	PARTYTYPE : INVENTOR INVENTOR : HARTAN, HANS- GEORG
EP2589430 A1	20131211	LSRE	RIN1	INVENTOR (CORRECTION)	PARTYTYPE : INVENTOR INVENTOR : SCHOELKOPF, JOACHIM
EP2589430 A1	20131211	LSRE	RIN1	INVENTOR (CORRECTION)	PARTYTYPE : INVENTOR INVENTOR : SKOVBY, MICHAEL
EP2589430 A1	20140319	LSES	+17Q	FIRST EXAMINATION REPORT	EFFECTIVE DATE : 20140213
EP2589430 A1	20150225	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : C02F 1/56 20060101ALN20150122BHEP
EP2589430 A1	20150225	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : C02F 1/66 20060101ALN20150122BHEP
EP2589430 A1	20150225	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : B01J 20/32 20060101ALI20150122BHEP
EP2589430 A1	20150225	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : C02F 103/28 20060101ALN20150122BHEP
EP2589430 A1	20150225	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : C02F 1/28 20060101ALI20150122BHEP
EP2589430 A1	20150225	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : B01J 20/04 20060101AFI20150122BHEP
EP2589430 A1	20150225	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : C02F 1/52 20060101ALI20150122BHEP
EP2589430 A1	20150225	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : C02F 11/14 20060101ALI20150122BHEP
EP2589430 A1	20150311	LSGT	+INTG	ANNOUNCEMENT OF INTENTION TO GRANT	EFFECTIVE DATE : 20150210
EP2589430 A1	20150715	LSRE	RIN1	INVENTOR (CORRECTION)	PARTYTYPE : INVENTOR INVENTOR : SCHOELKOPF, JOACHIM
EP2589430 A1	20150715	LSRE	RIN1	INVENTOR (CORRECTION)	PARTYTYPE : INVENTOR INVENTOR : GANE, PATRICK A.C.
EP2589430 A1	20150715	LSRE	RIN1	INVENTOR (CORRECTION)	PARTYTYPE : INVENTOR INVENTOR : SKOVBY, MICHAEL
EP2589430 A1	20150715	LSRE	RIN1	INVENTOR (CORRECTION)	PARTYTYPE : INVENTOR INVENTOR : HARTAN, HANS- GEORG
EP2589430 A1	20150715	LSRE	RIN1	INVENTOR (CORRECTION)	PARTYTYPE : INVENTOR INVENTOR : GERARD, DANIEL E.
EP2589430 A1	20150902	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : GB REF LEGAL EVENT CODE : FG4D
EP2589430 A1	20150915	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : EP
EP2589430 A1	20150915	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : AT REF LEGAL EVENT CODE : REF REF DOCUMENT NUMBER : 746198 COUNTRY OF REF DOCUMENT : AT KIND CODE OF REF DOCUMENT : T

					DESIGNATED STATE(S) : EFFECTIVE DATE : 20150915
EP2589430 A1	20150923	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : IE REF LEGAL EVENT CODE : FG4D
EP2589430 A1	20151015	LSPB	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R096 REF DOCUMENT NUMBER : 602011019327 COUNTRY OF REF DOCUMENT : DE
EP2589430 A1	20151021	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : ES REF LEGAL EVENT CODE : FG2A REF DOCUMENT NUMBER : 2548911 COUNTRY OF REF DOCUMENT : ES KIND CODE OF REF DOCUMENT : T3 DESIGNATED STATE(S) : EFFECTIVE DATE : 20151021
EP2589430 A1	20151104	LSRE	RIN2	INVENTOR (CORRECTION)	PARTYTYPE : INVENTOR INVENTOR : HARTAN, HANS- GEORG
EP2589430 A1	20151104	LSRE	RIN2	INVENTOR (CORRECTION)	PARTYTYPE : INVENTOR INVENTOR : SKOVBY, MICHAEL
EP2589430 A1	20151104	LSRE	RIN2	INVENTOR (CORRECTION)	PARTYTYPE : INVENTOR INVENTOR : GERARD, DANIEL E.
EP2589430 A1	20151104	LSRE	RIN2	INVENTOR (CORRECTION)	PARTYTYPE : INVENTOR INVENTOR : SCHOELKOPF, JOACHIM
EP2589430 A1	20151104	LSRE	RIN2	INVENTOR (CORRECTION)	PARTYTYPE : INVENTOR INVENTOR : GANE, PATRICK A.C.
EP2589430 A1	20151117	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : RO REF LEGAL EVENT CODE : EPE
EP2589430 A1	20151119	LSFE	REG	REFERENCE TO A NATIONAL CODE	COUNTRY OF REF DOCUMENT : FR REF COUNTRY CODE : FR REF LEGAL EVENT CODE : PLFP YEAR OF FEE PAYMENT : 5
EP2589430 A1	20160125	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : NO REF LEGAL EVENT CODE : T2 EFFECTIVE DATE : 20150902
EP2589430 A1	20160129	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : GR PAYMENT DATE : 20151112 YEAR OF FEE PAYMENT : 5
EP2589430 A1	20160129	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : TR PAYMENT DATE : 20151022 YEAR OF FEE PAYMENT : 5
EP2589430 A1	20160229	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : BE PAYMENT DATE : 20151118 YEAR OF FEE PAYMENT : 5
EP2589430 A1	20160229	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : PT PAYMENT DATE : 20151112 YEAR OF FEE PAYMENT : 5
EP2589430 A1	20160229	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : HR PAYMENT DATE : 20151120 YEAR OF FEE PAYMENT : 5
EP2589430 A1	20160229	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : SE PAYMENT DATE : 20151118 YEAR OF FEE PAYMENT : 5
EP2589430 A1	20160229	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : ES PAYMENT DATE : 20151112 YEAR OF FEE PAYMENT : 5

EP2589430 A1	20160229	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : RO PAYMENT DATE : 20151026 YEAR OF FEE PAYMENT : 5
EP2589430 A1	20160229	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : SI PAYMENT DATE : 20151026 YEAR OF FEE PAYMENT : 5
EP2589430 A1	20160229	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : RS PAYMENT DATE : 20151026 YEAR OF FEE PAYMENT : 5
EP2589430 A1	20160229	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : LV PAYMENT DATE : 20151111 YEAR OF FEE PAYMENT : 5
EP2589430 A1	20160428	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : HU REF LEGAL EVENT CODE : AG4A REF DOCUMENT NUMBER : E025587 COUNTRY OF REF DOCUMENT : HU
EP2589430 A1	20160429	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : IS NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20160102
EP2589430 A1	20160429	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : IT PAYMENT DATE : 20151230 YEAR OF FEE PAYMENT : 5
EP2589430 A1	20160531	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : PL PAYMENT DATE : 20151028 YEAR OF FEE PAYMENT : 5
EP2589430 A1	20160603	LSRE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R097 REF DOCUMENT NUMBER : 602011019327 COUNTRY OF REF DOCUMENT : DE
EP2589430 A1	20160617	LSRE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : GR REF LEGAL EVENT CODE : EP REF DOCUMENT NUMBER : 20150402274 COUNTRY OF REF DOCUMENT : GR EFFECTIVE DATE : 20160201
EP2589430 A1	20160630	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : MC NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20150902
EP2589430 A1	20160810	LSGT	+26N	NO OPPOSITION FILED	EFFECTIVE DATE : 20160603
EP2589430 A1	20161118	LSFE	REG	REFERENCE TO A NATIONAL CODE	COUNTRY OF REF DOCUMENT : FR REF COUNTRY CODE : FR REF LEGAL EVENT CODE : PLFP YEAR OF FEE PAYMENT : 6
EP2589430 A1	20170131	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : CZ PAYMENT DATE : 20161103 YEAR OF FEE PAYMENT : 6
EP2589430 A1	20170131	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : SK PAYMENT DATE : 20161031 YEAR OF FEE PAYMENT : 6
EP2589430 A1	20170131	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL	COUNTRY OF REF DOCUMENT : GB PAYMENT DATE : 20161122 YEAR OF FEE PAYMENT : 6

EP2589430 A1	20170131	LSFE	+PGFP	OFFICE POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : NO PAYMENT DATE : 20161122 YEAR OF FEE PAYMENT : 6
EP2589430 A1	20170131	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : FR PAYMENT DATE : 20161118 YEAR OF FEE PAYMENT : 6
EP2589430 A1	20170131	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : CH PAYMENT DATE : 20161121 YEAR OF FEE PAYMENT : 6
EP2589430 A1	20170131	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : LT PAYMENT DATE : 20161020 YEAR OF FEE PAYMENT : 6
EP2589430 A1	20170131	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : NL PAYMENT DATE : 20161118 YEAR OF FEE PAYMENT : 6
EP2589430 A1	20170131	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : EE PAYMENT DATE : 20161114 YEAR OF FEE PAYMENT : 6
EP2589430 A1	20170131	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : HU PAYMENT DATE : 20161115 YEAR OF FEE PAYMENT : 6
EP2589430 A1	20170131	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : DK PAYMENT DATE : 20161118 YEAR OF FEE PAYMENT : 6
EP2589430 A1	20170131	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : DE PAYMENT DATE : 20161121 YEAR OF FEE PAYMENT : 6
EP2589430 A1	20170131	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : IE PAYMENT DATE : 20161122 YEAR OF FEE PAYMENT : 6
EP2589430 A1	20170131	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : CY PAYMENT DATE : 20161101 YEAR OF FEE PAYMENT : 6
EP2589430 A1	20170131	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : FI PAYMENT DATE : 20161111 YEAR OF FEE PAYMENT : 6
EP2589430 A1	20170131	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : LU PAYMENT DATE : 20161121 YEAR OF FEE PAYMENT : 6
EP2589430 A1	20170228	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : RS PAYMENT DATE : 20161024 YEAR OF FEE PAYMENT : 6
EP2589430 A1	20170228	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : RO PAYMENT DATE : 20161027 YEAR OF FEE PAYMENT : 6
EP2589430 A1	20170228	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : AT PAYMENT DATE : 20161121 YEAR OF FEE PAYMENT : 6
EP2589430 A1	20170228	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : PT PAYMENT DATE : 20161102 YEAR OF FEE PAYMENT : 6
EP2589430 A1	20170228	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : IT PAYMENT DATE : 20161123 YEAR OF FEE PAYMENT : 6

EP2589430 A1	20170228	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : GR PAYMENT DATE : 20161111 YEAR OF FEE PAYMENT : 6
EP2589430 A1	20170228	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : HR PAYMENT DATE : 20161021 YEAR OF FEE PAYMENT : 6
EP2589430 A1	20170228	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : ES PAYMENT DATE : 20161114 YEAR OF FEE PAYMENT : 6
EP2589430 A1	20170228	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : BE PAYMENT DATE : 20161118 YEAR OF FEE PAYMENT : 6
EP2589430 A1	20170228	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : LV PAYMENT DATE : 20161110 YEAR OF FEE PAYMENT : 6
EP2589430 A1	20170228	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : SE PAYMENT DATE : 20161118 YEAR OF FEE PAYMENT : 6
EP2589430 A1	20170228	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : SI PAYMENT DATE : 20161025 YEAR OF FEE PAYMENT : 6
EP2589430 B1	20150902	LSGT	+	granted / extensions (spc, cpc, pte)	
EP2773453 A1	20140910	LSPB	+	published / reissued	
EP2773453 A1	20140910	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20140507
EP2773453 A1	20150422	LSES	+17Q	FIRST EXAMINATION REPORT	EFFECTIVE DATE : 20150320
EP2773453 A1	20150930	LSGT	+INTG	ANNOUNCEMENT OF INTENTION TO GRANT	EFFECTIVE DATE : 20150907
EP2773453 A1	20151104	LSRE	RIN1	INVENTOR (CORRECTION)	PARTYTYPE : INVENTOR INVENTOR : SKOVBY, MICHAEL
EP2773453 A1	20151104	LSRE	RIN1	INVENTOR (CORRECTION)	PARTYTYPE : INVENTOR INVENTOR : GANE, PATRICK A. C.
EP2773453 A1	20151104	LSRE	RIN1	INVENTOR (CORRECTION)	PARTYTYPE : INVENTOR INVENTOR : GERARD, DANIEL E.
EP2773453 A1	20151104	LSRE	RIN1	INVENTOR (CORRECTION)	PARTYTYPE : INVENTOR INVENTOR : SCHOELKOPF, JOACHIM
EP2773453 A1	20151104	LSRE	RIN1	INVENTOR (CORRECTION)	PARTYTYPE : INVENTOR INVENTOR : HARTAN, HANS- GEORG
EP2773453 A1	20160316	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : GB REF LEGAL EVENT CODE : FG4D
EP2773453 A1	20160331	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : EP
EP2773453 A1	20160406	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : IE REF LEGAL EVENT CODE : FG4D
EP2773453 A1	20160415	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : AT REF LEGAL EVENT CODE : REF REF DOCUMENT NUMBER : 780713 COUNTRY OF REF DOCUMENT : AT KIND CODE OF REF DOCUMENT : T DESIGNATED STATE(S) : EFFECTIVE DATE : 20160415

EP2773453 A1	20160428	LSPB	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R096 REF DOCUMENT NUMBER : 602012015713 COUNTRY OF REF DOCUMENT : DE
EP2773453 A1	20160525	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : RO REF LEGAL EVENT CODE : EPE
EP2773453 A1	20160712	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : ES REF LEGAL EVENT CODE : FG2A REF DOCUMENT NUMBER : 2576960 COUNTRY OF REF DOCUMENT : ES KIND CODE OF REF DOCUMENT : T3 DESIGNATED STATE(S) : EFFECTIVE DATE : 20160712
EP2773453 A1	20160718	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : NO REF LEGAL EVENT CODE : T2 EFFECTIVE DATE : 20160316
EP2773453 A1	20161003	LSRE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : GR REF LEGAL EVENT CODE : EP REF DOCUMENT NUMBER : 20160401053 COUNTRY OF REF DOCUMENT : GR EFFECTIVE DATE : 20160628
EP2773453 A1	20161020	LSFE	REG	REFERENCE TO A NATIONAL CODE	COUNTRY OF REF DOCUMENT : FR REF COUNTRY CODE : FR REF LEGAL EVENT CODE : PLFP YEAR OF FEE PAYMENT : 5
EP2773453 A1	20161031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : IS NOTIFICATIONNOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20160716
EP2773453 A1	20161031	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : LT PAYMENT DATE : 20160921 YEAR OF FEE PAYMENT : 5
EP2773453 A1	20161130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : SM NOTIFICATIONNOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20160316
EP2773453 A1	20161130	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : RS PAYMENT DATE : 20160927 YEAR OF FEE PAYMENT : 5
EP2773453 A1	20161130	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : RO PAYMENT DATE : 20160927 YEAR OF FEE PAYMENT : 5
EP2773453 A1	20161130	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : LV PAYMENT DATE : 20161011 YEAR OF FEE PAYMENT : 5
EP2773453 A1	20161219	LSRE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R097 REF DOCUMENT NUMBER : 602012015713 COUNTRY OF REF DOCUMENT : DE
EP2773453 A1	20161230	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : LU PAYMENT DATE : 20161026 YEAR OF FEE PAYMENT : 5
EP2773453 A1	20170131	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL	COUNTRY OF REF DOCUMENT : FI PAYMENT DATE : 20161012 YEAR OF FEE PAYMENT : 5

EP2773453 A1	20170131	LSFE	+PGFP	OFFICE POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : GB PAYMENT DATE : 20161020 YEAR OF FEE PAYMENT : 5
EP2773453 A1	20170131	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : NL PAYMENT DATE : 20161019 YEAR OF FEE PAYMENT : 5
EP2773453 A1	20170131	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : SK PAYMENT DATE : 20161027 YEAR OF FEE PAYMENT : 5
EP2773453 A1	20170131	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : CH PAYMENT DATE : 20161020 YEAR OF FEE PAYMENT : 5
EP2773453 A1	20170131	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : CZ PAYMENT DATE : 20161027 YEAR OF FEE PAYMENT : 5
EP2773453 A1	20170131	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : EE PAYMENT DATE : 20161012 YEAR OF FEE PAYMENT : 5
EP2773453 A1	20170131	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : CY PAYMENT DATE : 20161018 YEAR OF FEE PAYMENT : 5
EP2773453 A1	20170131	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : HU PAYMENT DATE : 20161018 YEAR OF FEE PAYMENT : 5
EP2773453 A1	20170131	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : FR PAYMENT DATE : 20161020 YEAR OF FEE PAYMENT : 5
EP2773453 A1	20170131	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : DK PAYMENT DATE : 20161019 YEAR OF FEE PAYMENT : 5
EP2773453 A1	20170131	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : DE PAYMENT DATE : 20161020 YEAR OF FEE PAYMENT : 5
EP2773453 A1	20170131	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : NO PAYMENT DATE : 20161024 YEAR OF FEE PAYMENT : 5
EP2773453 A1	20170131	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : IE PAYMENT DATE : 20161021 YEAR OF FEE PAYMENT : 5
EP2773453 A1	20170222	LSGT	+26N	NO OPPOSITION FILED	EFFECTIVE DATE : 20161219
EP2773453 A1	20170228	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : BG NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20160616
EP2773453 A1	20170228	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : BE PAYMENT DATE : 20161019 YEAR OF FEE PAYMENT : 5
EP2773453 A1	20170228	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : HR PAYMENT DATE : 20161004 YEAR OF FEE PAYMENT : 5
EP2773453 A1	20170228	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO	COUNTRY OF REF DOCUMENT : ES PAYMENT DATE : 20161011

EP2773453 A1	20170228	LSFE	+PGFP	NATIONAL OFFICE POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	YEAR OF FEE PAYMENT : 5 COUNTRY OF REF DOCUMENT : IT PAYMENT DATE : 20161024 YEAR OF FEE PAYMENT : 5
EP2773453 A1	20170228	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : GR PAYMENT DATE : 20161019 YEAR OF FEE PAYMENT : 5
EP2773453 A1	20170228	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : SE PAYMENT DATE : 20161019 YEAR OF FEE PAYMENT : 5
EP2773453 A1	20170228	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : SI PAYMENT DATE : 20160923 YEAR OF FEE PAYMENT : 5
EP2773453 A1	20170228	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : PT PAYMENT DATE : 20161028 YEAR OF FEE PAYMENT : 5
EP2773453 A1	20170228	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : HU REF LEGAL EVENT CODE : AG4A REF DOCUMENT NUMBER : E029187 COUNTRY OF REF DOCUMENT : HU
EP2773453 B1	20160316	LSGT	+	granted / extensions (spc, cpc, pte)	
ES2548911 T3	20151021	LSGT	+	granted / extensions (spc, cpc, pte)	
ES2576960 T3	20160712	LSGT	+	granted / extensions (spc, cpc, pte)	
HR20151207 T1	20151204	LSPB	+	published / reissued	
HR20160660 T1	20160715	LSPB	+	published / reissued	
HU025587 T2	20160428	LSPB	+	published / reissued	
IN00755MN2014 A	20150206	LSPB	+	published / reissued	
JP2014533196 T2	20141211	LSPB	+	published / reissued	
JP2014533196 T2	20150520	LSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20150519
JP2014533196 T2	20150924	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20150924
JP2014533196 T2	20151202	LSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20151201
JP2014533196 T2	20161004	LSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20161004
JP2014533196 T2	20161227	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20161227
JP2014533196 T2	20170221	LSGT	+A01	WRITTEN DECISION TO GRANT A PATENT OR TO GRANT A REGISTRATION (UTILITY MODEL)	TEXT : JAPANESE INTERMEDIATE CODE: A01 EFFECTIVE DATE : 20170221
KR101644251 B1	20160729	LSGT	+	granted / extensions (spc, cpc, pte)	
KR101644251 B1	20160725	LSGT	+GRNT	WRITTEN DECISION TO GRANT	

KR20140097240 A	20140806	LSPB	+	published / reissued	
KR20140097240 A	20140528	LSES	A201	REQUEST FOR EXAMINATION	
KR20140097240 A	20151020	LSES	-E902	NOTIFICATION OF REASON FOR REFUSAL	
KR20140097240 A	20160418	LSRV	-E601	DECISION TO REFUSE APPLICATION	
KR20140097240 A	20160519	LSRE	AMND	AMENDMENT	
KR20140097240 A	20160614	LSGT	+X701	DECISION TO GRANT (AFTER RE- EXAMINATION)	
MX2014005268 A1	20140822	LSPB	+	published / reissued	
MX2014005268 A1	20160222	LSGT	+FG	GRANT OR REGISTRATION	
MX337259 B	20160222	LSGT	+	granted / extensions (spc, cpc, pte)	
NZ624723 A	20150626	LSPB	+	published / reissued	
NZ624723 A	20151030	LSGT	+PSEA	PATENT SEALED	
NZ624723 A	20160930	LSFE	+RENW	RENEWAL (RENEWAL FEES ACCEPTED)	DESCRIPTION : PATENT RENEWED FOR 1 YEAR UNTIL 30 OCT 2017 BY DENNEMEYER + CO. EFFECTIVE DATE : 20160922
PL2773453 T3	20161031	LSGT	+	granted / extensions (spc, cpc, pte)	
PT2589430 T	20151116	LSGT	+	granted / extensions (spc, cpc, pte)	
PT2773453 T	20160603	LSGT	+	granted / extensions (spc, cpc, pte)	
RS54404 B1	20160428	LSGT	+	granted / extensions (spc, cpc, pte)	
RS54771 B1	20161031	LSGT	+	granted / extensions (spc, cpc, pte)	
RU2564289 C1	20150927	LSGT	+	granted / extensions (spc, cpc, pte)	
SG10201506137S A1	20150929	LSPB	+	published / reissued	
SI2589430 T1	20151130	LSGT	+	granted / extensions (spc, cpc, pte)	
SI2773453 T1	20160630	LSGT	+	granted / extensions (spc, cpc, pte)	
TH146046 A	20160304	LSPB	+	published / reissued	
TW201332904 A	20130816	LSPB	+	published / reissued	
TWI529137 B	20160411	LSGT	+	granted / extensions (spc, cpc, pte)	
US2014284519 AA	20140925	LSPB	+	published / reissued	
US2014284519 AA	20140617	LSAS	AS	ASSIGNMENT	OWNER NAME : OMYA INTERNATIONAL AG, SWITZERLAND DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:GERARD, DANIEL E.; HARTAN, HANS-GEORG; SCHOELKOPF, JOACHIM; AND OTHERS; SIGNING DATES FROM 20140519 TO 20140606; REEL/FRAME:033116/0001
WO13064492 A1	20130510	LSPB	+	published / reissued	
WO13064492 A1	20140416	LSNP	ENP	ENTRY INTO THE	REF DOCUMENT NUMBER :

				NATIONAL PHASE IN:	2852599 COUNTRY OF REF DOCUMENT : CA
WO13064492 A1	20140416	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 14352151 COUNTRY OF REF DOCUMENT : US
WO13064492 A1	20140430	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 232400 COUNTRY OF REF DOCUMENT : IL
WO13064492 A1	20140501	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 2012331228 COUNTRY OF REF DOCUMENT : AU DATE OF REF DOCUMENT : 20121030 KIND CODE OF REF DOCUMENT : A
WO13064492 A1	20140502	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 2014539310 COUNTRY OF REF DOCUMENT : JP KIND CODE OF REF DOCUMENT : A
WO13064492 A1	20140505	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : DE
WO13064492 A1	20140528	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 20147014340 COUNTRY OF REF DOCUMENT : KR KIND CODE OF REF DOCUMENT : A
WO13064492 A1	20140604	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 2014122544 COUNTRY OF REF DOCUMENT : RU KIND CODE OF REF DOCUMENT : A